

Well Name: BIG STAGG FED COM	Well Location: T21S / R32E / SEC 1 / SWSE / 32.5007664 / -103.6270262	County or Parish/State: LEA / NM
Well Number: 552H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM92187	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254697900X1	Well Status: Approved Application for Permit to Drill	Operator: ASCENT ENERGY LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 07/27/2021	Time Sundry Submitted: 02:12
Date proposed operation will begin: 07/31/2021	

Procedure Description: Ascent Energy respectfully requests to amend the target formation for the Big Stagg Fed Com 703H from the Upper Wolfcamp formation to the Third Bone Spring formation. The well will keep the same bottom hole location. In addition, we would like to amend the well number to the 552H. The new well name will be, Big Stag Fed Com 552H. Please see the attached documents for the amended directional plan, anti-collision plan, and C102.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Big_Stag_Fed_Com_703H__Plan_1_07_22_21_20210727140911.pdf
- Big_Stag_Fed_Com_703H__Plan_1_07_22_21_AC_Report_20210727140911.pdf
- 2020010109_ASCENT_BIG_STAG_FED_COM_LEA_552H_C_102_FINAL_07_27_2021_20210727140842.pdf

Received by OCD: 9/24/2021 9:06:22 AM

Well Name: BIG STAGG FED COM

Well Location: T21S / R32E / SEC 1 / SWSE / 32.5007664 / -103.6270262

County or Parish/State: LEA / NM

Well Number: 552H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM92187

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254697900X1

Well Status: Approved Application for Permit to Drill

Operator: ASCENT ENERGY LLC

Operator Certification

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

Operator Electronic Signature: BEN METZ

Signed on: JUL 27, 2021 02:11 PM

Name: ASCENT ENERGY LLC

Title: Vice President Exploration

Street Address: PO BOX 270983

City: LITTLETONState: CO

Phone: (303) 513-8590

Email address: BMETZ@ASCENTENERGY.US

Field Representative

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 07/28/2021

Signature: Chris Walls

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 334-6170
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025 -46979	² Pool Code 97895	³ Pool Name WC-025 G-08 S213304D; BONE SPRING
⁴ Property Code 327306	⁵ Property Name BIG STAG FED COM	⁶ Well Number 552H
⁷ OGRID No. 325830	⁸ Operator Name ASCENT ENERGY, LLC.	⁹ Elevation 3,796'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	1	21 S	32 E		5	SOUTH	2,167	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	13	21 S	32 E		1,268	NORTH	1,650	EAST	LEA

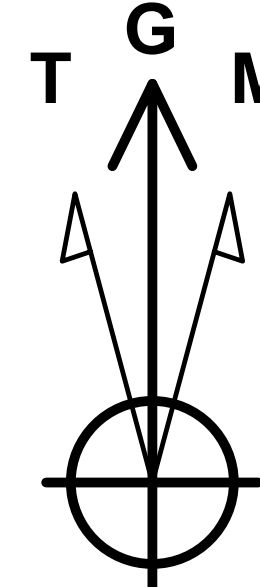
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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.

	SHL (NAD83 NME) Y = 546,606.9 X = 759,141.8 LAT. = 32.500700 °N LONG. = 103.626853 °W FTP (NAD83 NME) Y = 546,506.5 X = 759,658.7 LAT. = 32.500414 °N LONG. = 103.625179 °W CORNER COORDINATES (NAD83 NME) A - Y = 546,597.8 N , X = 758,674.7 E B - Y = 543,956.2 N , X = 758,690.6 E C - Y = 541,317.0 N , X = 758,706.4 E D - Y = 539,996.6 N , X = 758,714.8 E E - Y = 540,007.9 N , X = 760,030.6 E F - Y = 541,325.6 N , X = 760,022.1 E G - Y = 543,967.1 N , X = 760,005.4 E H - Y = 546,609.4 N , X = 759,991.5 E SHL (NAD27 NME) Y = 546,546.1 X = 717,960.5 LAT. = 32.500580 °N LONG. = 103.626363 °W FTP (NAD27 NME) Y = 546,445.7 X = 718,477.4 LAT. = 32.500294 °N LONG. = 103.624688 °W CORNER COORDINATES (NAD27 NME) A - Y = 546,537.0 N , X = 717,493.4 E B - Y = 543,895.4 N , X = 717,509.2 E C - Y = 541,256.3 N , X = 717,524.9 E D - Y = 539,935.9 N , X = 717,533.3 E E - Y = 539,947.2 N , X = 718,849.2 E F - Y = 541,264.9 N , X = 718,840.7 E G - Y = 543,906.3 N , X = 718,824.1 E H - Y = 546,548.6 N , X = 718,810.3 E	LTP (NAD83 NME) Y = 540,105.0 X = 759,696.3 LAT. = 32.482819 °N LONG. = 103.625195 °W BHL (NAD83 NME) Y = 540,055.0 X = 759,696.6 LAT. = 32.482681 °N LONG. = 103.625195 °W LTP (NAD27 NME) Y = 540,044.3 X = 718,514.8 LAT. = 32.482698 °N LONG. = 103.624705 °W BHL (NAD27 NME) Y = 539,994.3 X = 718,515.1 LAT. = 32.482561 °N LONG. = 103.624705 °W	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>W Ben Metz</i> 7/27/2021 Signature Date W Ben Metz Printed Name bmetz@ascentenergy.us E-mail Address
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 07-27-2021 Date of Survey Professional Surveyor: <i>[Signature]</i> MARK DILLON HARP 23786 Certificate Number		RR 2020010109

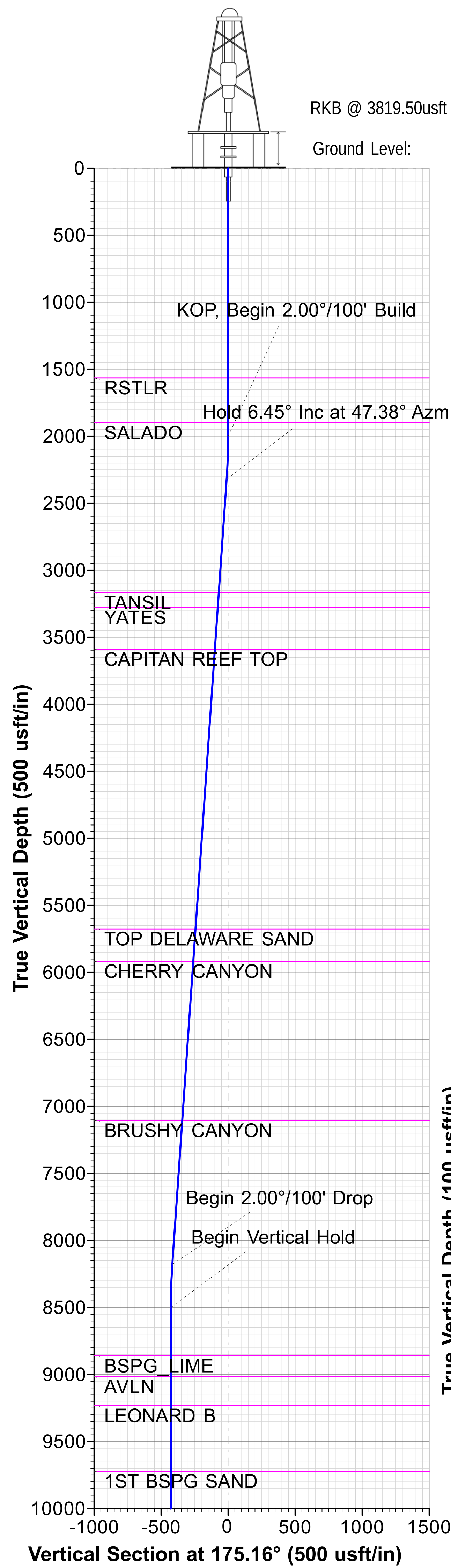


Project: Lea County, New Mexico (NAD83)
Site: Big Stag Fed Com
Well: 703H
Wellbore: OH / 68166
Design: Plan 1 07-22-21
Rig: H&P 625



Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.08°

Magnetic Field
Strength: 47922.3nT
Dip Angle: 60.28°
Date: 7/27/2021
Model: MVHD



RKB @ 3819.50usft (H&P 625)
Ground Level: 3793.00

WELL DETAILS						
	Ground Level:	3793.00				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	546606.90	759141.80	32.500700	-103.626853	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - Big Stag Fed Com 703H	11200.00	-6551.90	554.80	540055.00	759696.60	32.482681	-103.625195
FTP - Big Stag Fed Com 703H	11200.00	-100.40	516.90	546506.50	759658.70	32.500414	-103.625179
LTP - Big Stag Fed Com 703H	11200.00	-6501.90	554.50	540105.00	759696.30	32.482819	-103.625195

SECTION DETAILS												
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		KOP, Begin 2.00°/100' Build	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00		Hold 6.45° Inc at 47.38° Azm	
3	2322.27	6.45	47.38	2321.59	12.26	13.32	2.00	47.38	-11.09		Begin 2.00°/100' Drop	
4	8216.34	6.45	47.38	8178.41	460.29	500.21	0.00	0.00	-416.44		Begin Vertical Hold	
5	8538.61	0.00	0.00	8500.00	472.55	513.53	2.00	180.00	-427.53		KOP2, Begin 10.00°/100' Build	
6	10665.66	0.00	0.00	10627.04	472.55	513.53	0.00	0.00	-427.53		LP, Hold 90.00° Inc at 179.66° Azm	
7	11565.66	90.00	179.66	11200.00	-100.40	516.90	10.00	179.66	143.66		TD at 18017.27	
8	18017.27	90.00	179.66	11200.00	-6551.90	554.80	0.00	0.00	6575.35	BHL - Big Stag Fed Com 703H		

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

Local Origin: Well 703H, Grid North

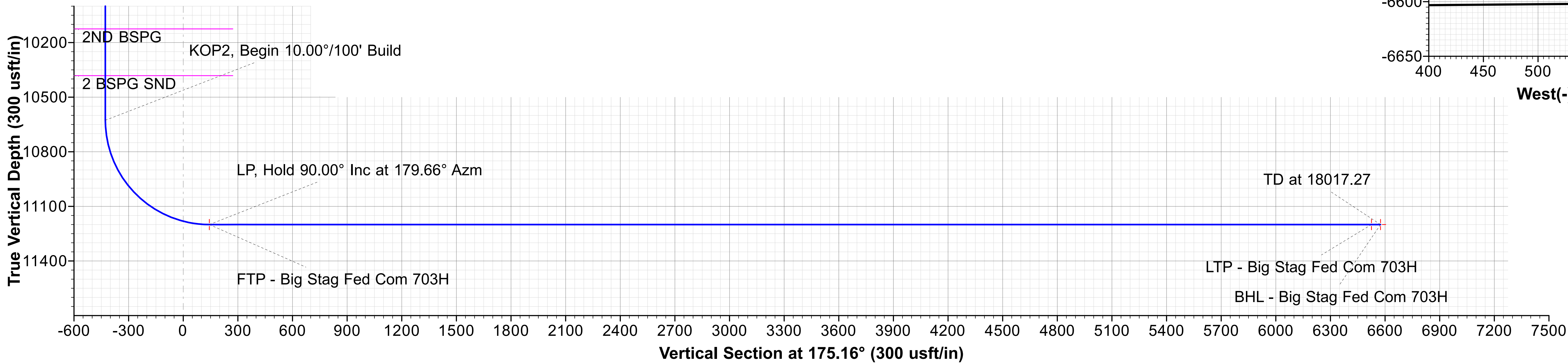
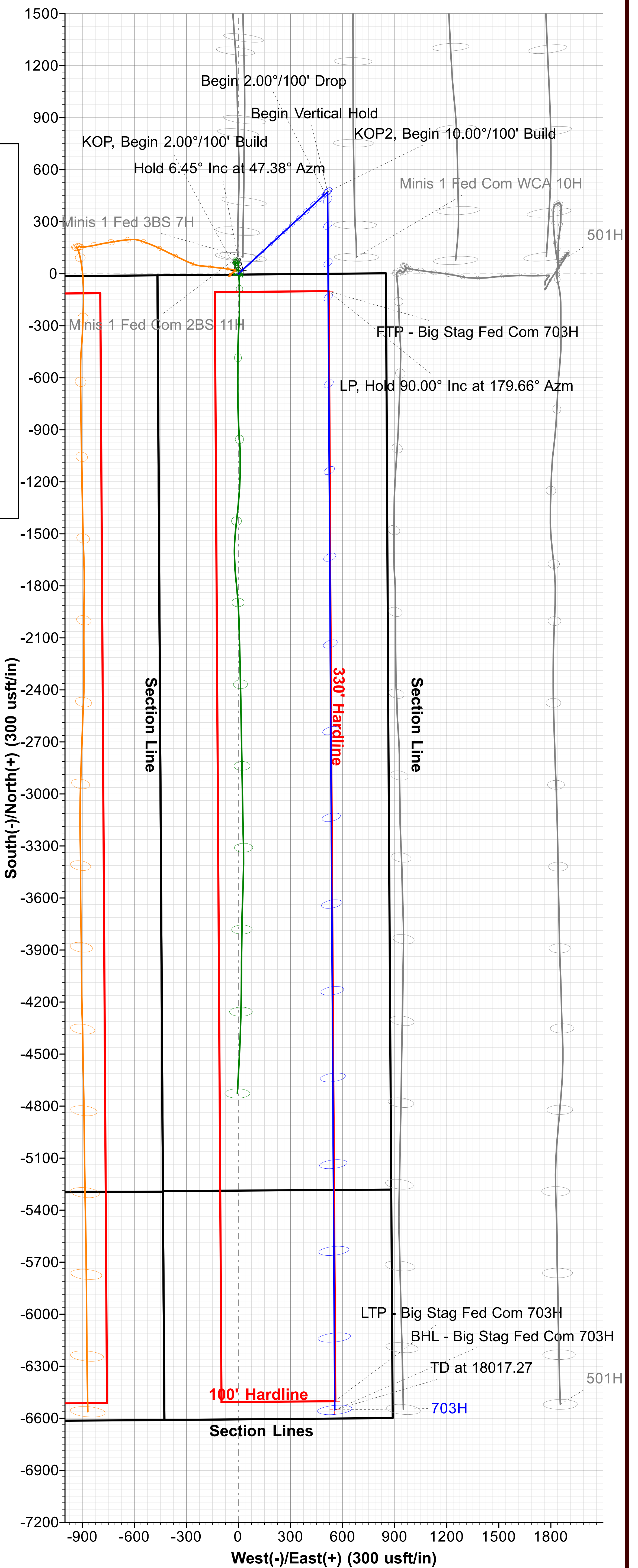
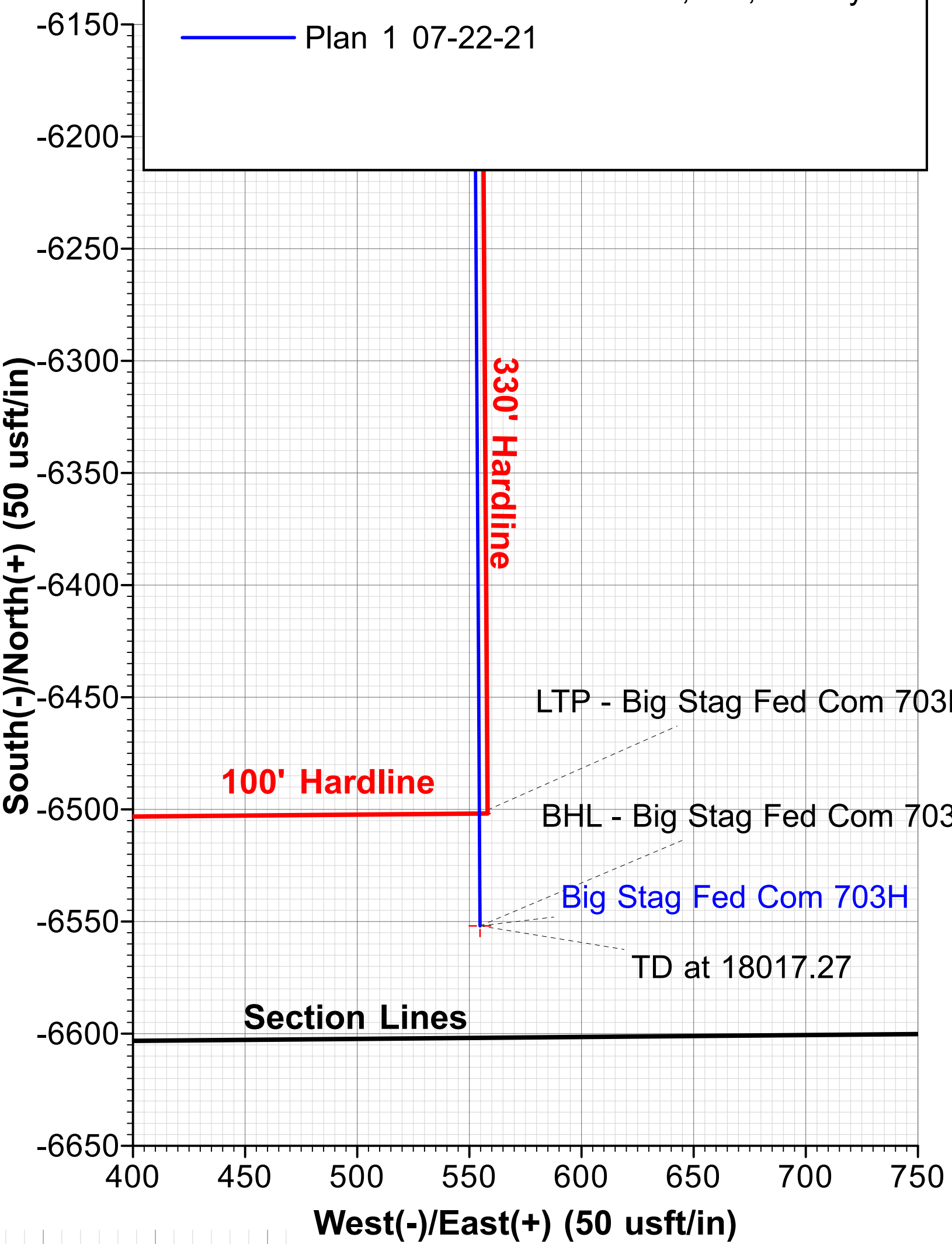
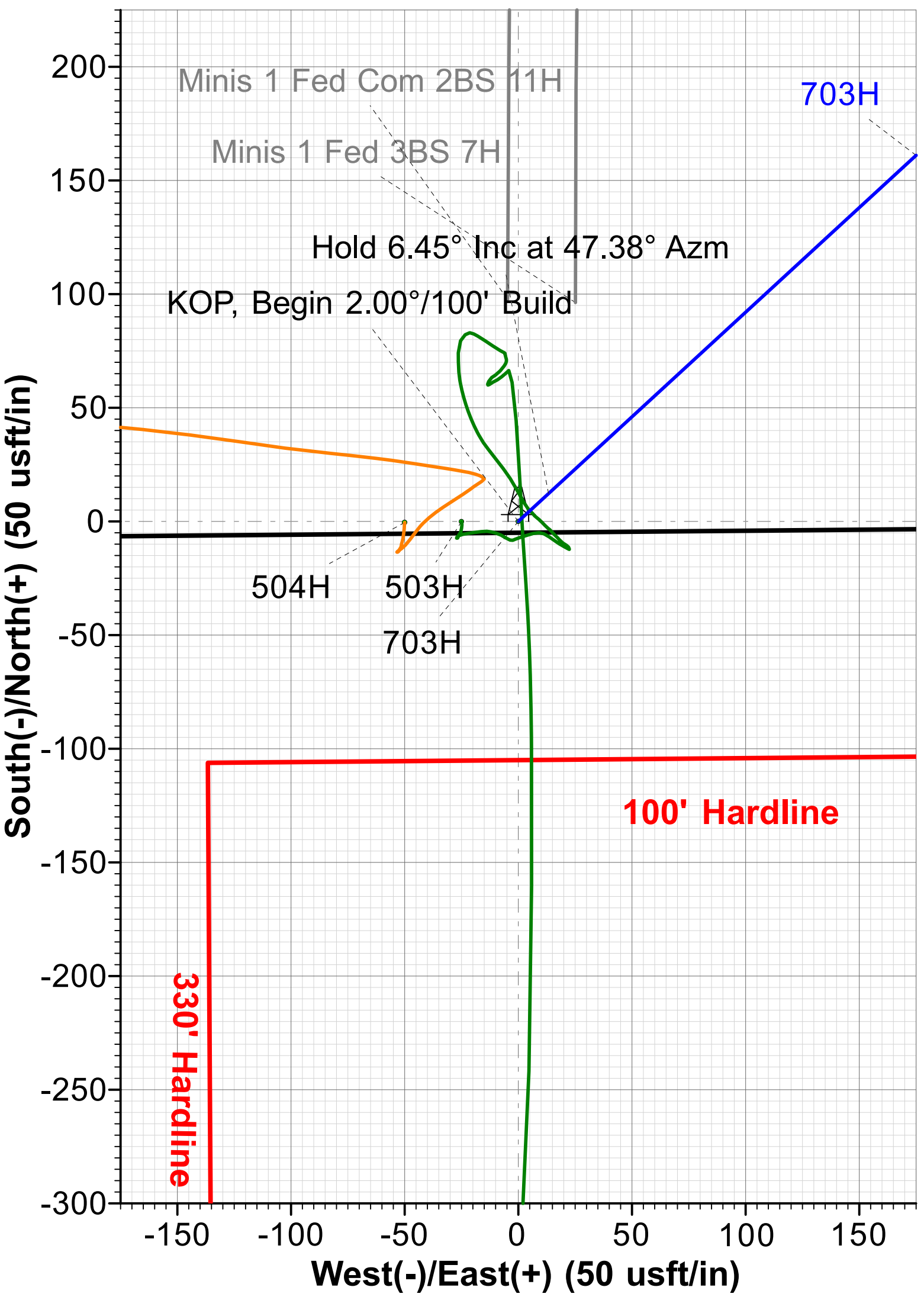
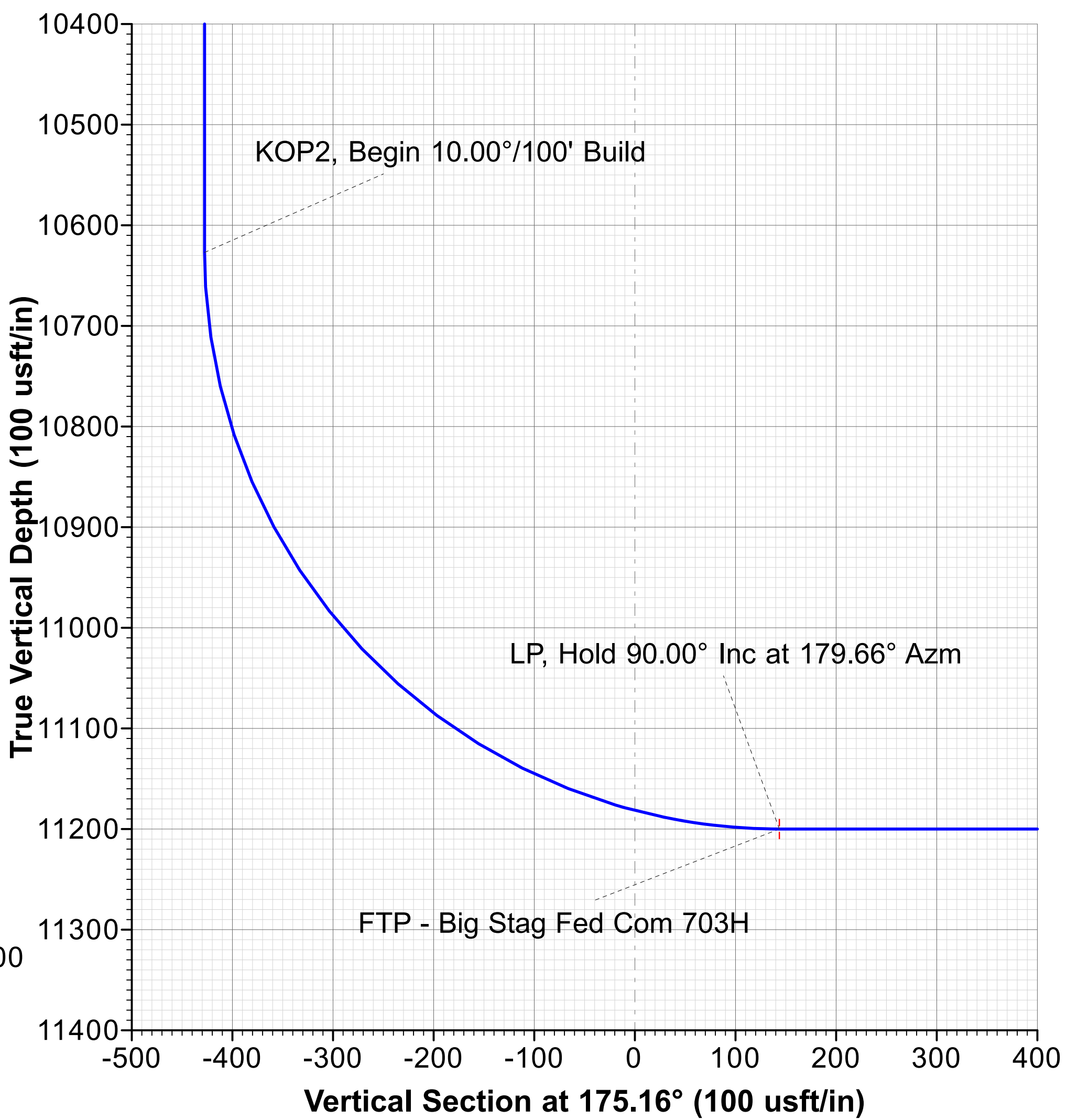
Latitude: 32.500700
Longitude: -103.626853

Grid East: 759141.80
Grid North: 546606.90
Scale Factor: 1.000

Geomagnetic Model: MVHD
Sample Date: 27-Jul-21
Magnetic Declination: 6.46°
Dip Angle from Horizontal: 60.28°
Magnetic Field Strength: 47922.28777020nT

To convert a Magnetic Direction to a Grid Direction, Add 6.08°
To convert a Magnetic Direction to a True Direction, Add 6.46° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

- LEGEND**
- 504H, OH / 67941, Surveys (H&P 625) V0
 - 503H, OH / 67940, Surveys (H&P 625) V0
 - Minis 1 Fed Com 3BS 6H, OH, Surveys V0
 - Minis 1 Fed Com WCA 10H, OH, Surveys V0
 - Minis 1 Fed 3BS 7H, OH, Surveys V0
 - 502H, OH / 67652, Surveys (H&P 625) V0
 - 501H, ST01 / 67650, Surveys (H&P 625) V0
 - 501H, OH / 67650, Surveys (H&P 625) V0
 - Minis Fed Com WCA 16H, OH, Surveys V0
 - Minis 1 Fed Com 2BS 11H, OH, Surveys V0
 - Plan 1 07-22-21





Ascent Energy

**Lea County, New Mexico (NAD83)
Big Stag Fed Com
703H**

OH / 68166

Plan: Plan 1 07-22-21

Standard Planning Report (Directional)

22 July, 2021





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 703H
Company:	Ascent Energy	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site:	Big Stag Fed Com	North Reference:	Grid
Well:	703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68166		
Design:	Plan 1 07-22-21		

Project	Lea County, New Mexico (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Big Stag Fed Com			
Site Position:		Northing:	546,606.80 usft	Latitude:	32.500700
From:	Map	Easting:	759,116.80 usft	Longitude:	-103.626935
Position Uncertainty:	1.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well	703H					
Well Position	+N/-S	0.10 usft	Northing:	546,606.90 usft	Latitude:	32.500700
	+E/-W	25.00 usft	Easting:	759,141.80 usft	Longitude:	-103.626853
Position Uncertainty		1.00 usft	Wellhead Elevation:		Ground Level:	3,793.00 usft

Wellbore	OH / 68166				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	7/27/2021	6.46	60.28	47,922.28777020

Design	Plan 1 07-22-21			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	175.16

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,322.27	6.45	47.38	2,321.59	12.26	13.32	2.00	2.00	0.00	47.38	
8,216.34	6.45	47.38	8,178.41	460.29	500.21	0.00	0.00	0.00	0.00	
8,538.61	0.00	0.00	8,500.00	472.55	513.53	2.00	-2.00	0.00	180.00	
10,665.66	0.00	0.00	10,627.04	472.55	513.53	0.00	0.00	0.00	0.00	
11,565.66	90.00	179.66	11,200.00	-100.40	516.90	10.00	10.00	0.00	179.66	
18,017.27	90.00	179.66	11,200.00	-6,551.90	554.80	0.00	0.00	0.00	0.00	BHL - Big Stag Fed C



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 703H
Company:	Ascent Energy	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site:	Big Stag Fed Com	North Reference:	Grid
Well:	703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68166		
Design:	Plan 1 07-22-21		

Planned Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
0.00	0.00	0.00	0.00	3,819.50	0.00	0.00	0.00	0.00
RSTLR								
1,565.18	0.00	0.00	1,565.18	2,254.32	0.00	0.00	0.00	0.00
SALADO								
1,899.67	0.00	0.00	1,899.67	1,919.83	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build								
2,000.00	0.00	0.00	2,000.00	1,819.50	0.00	0.00	0.00	0.00
2,100.00	2.00	47.38	2,099.98	1,719.52	1.18	1.28	-1.07	2.00
2,200.00	4.00	47.38	2,199.84	1,619.66	4.73	5.14	-4.28	2.00
2,300.00	6.00	47.38	2,299.45	1,520.05	10.63	11.55	-9.61	2.00
Hold 6.45° Inc at 47.38° Azm								
2,322.27	6.45	47.38	2,321.59	1,497.91	12.26	13.32	-11.09	2.00
2,400.00	6.45	47.38	2,398.83	1,420.67	18.17	19.75	-16.44	0.00
2,500.00	6.45	47.38	2,498.20	1,321.30	25.77	28.01	-23.32	0.00
2,600.00	6.45	47.38	2,597.57	1,221.93	33.37	36.27	-30.19	0.00
2,700.00	6.45	47.38	2,696.93	1,122.57	40.97	44.53	-37.07	0.00
2,800.00	6.45	47.38	2,796.30	1,023.20	48.57	52.79	-43.95	0.00
2,900.00	6.45	47.38	2,895.67	923.83	56.18	61.05	-50.82	0.00
3,000.00	6.45	47.38	2,995.04	824.46	63.78	69.31	-57.70	0.00
3,100.00	6.45	47.38	3,094.40	725.10	71.38	77.57	-64.58	0.00
TANSIL								
3,173.15	6.45	47.38	3,167.09	652.41	76.94	83.61	-69.61	0.00
3,200.00	6.45	47.38	3,193.77	625.73	78.98	85.83	-71.46	0.00
YATES								
3,285.69	6.45	47.38	3,278.92	540.58	85.49	92.91	-77.35	0.00
3,300.00	6.45	47.38	3,293.14	526.36	86.58	94.09	-78.33	0.00
3,400.00	6.45	47.38	3,392.51	426.99	94.18	102.35	-85.21	0.00
3,500.00	6.45	47.38	3,491.88	327.62	101.78	110.61	-92.09	0.00
CAPITAN REEF TOP								
3,598.98	6.45	47.38	3,590.23	229.27	109.31	118.79	-98.89	0.00
3,600.00	6.45	47.38	3,591.24	228.26	109.39	118.87	-98.97	0.00
3,700.00	6.45	47.38	3,690.61	128.89	116.99	127.13	-105.84	0.00
3,800.00	6.45	47.38	3,789.98	29.52	124.59	135.39	-112.72	0.00
3,900.00	6.45	47.38	3,889.35	-69.85	132.19	143.65	-119.60	0.00
4,000.00	6.45	47.38	3,988.72	-169.22	139.79	151.91	-126.47	0.00
4,100.00	6.45	47.38	4,088.08	-268.58	147.39	160.18	-133.35	0.00
4,200.00	6.45	47.38	4,187.45	-367.95	154.99	168.44	-140.23	0.00
4,300.00	6.45	47.38	4,286.82	-467.32	162.59	176.70	-147.11	0.00
4,400.00	6.45	47.38	4,386.19	-566.69	170.20	184.96	-153.98	0.00
4,500.00	6.45	47.38	4,485.56	-666.06	177.80	193.22	-160.86	0.00
4,600.00	6.45	47.38	4,584.92	-765.42	185.40	201.48	-167.74	0.00
4,700.00	6.45	47.38	4,684.29	-864.79	193.00	209.74	-174.61	0.00
4,800.00	6.45	47.38	4,783.66	-964.16	200.60	218.00	-181.49	0.00
4,900.00	6.45	47.38	4,883.03	-1,063.53	208.20	226.26	-188.37	0.00
5,000.00	6.45	47.38	4,982.40	-1,162.90	215.80	234.52	-195.25	0.00
5,100.00	6.45	47.38	5,081.76	-1,262.26	223.40	242.78	-202.12	0.00
5,200.00	6.45	47.38	5,181.13	-1,361.63	231.01	251.04	-209.00	0.00
5,300.00	6.45	47.38	5,280.50	-1,461.00	238.61	259.30	-215.88	0.00
5,400.00	6.45	47.38	5,379.87	-1,560.37	246.21	267.56	-222.75	0.00
5,500.00	6.45	47.38	5,479.23	-1,659.73	253.81	275.82	-229.63	0.00
5,600.00	6.45	47.38	5,578.60	-1,759.10	261.41	284.08	-236.51	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 703H
Company:	Ascent Energy	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site:	Big Stag Fed Com	North Reference:	Grid
Well:	703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68166		
Design:	Plan 1 07-22-21		

Planned Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
TOP DELAWARE SAND								
5,697.76	6.45	47.38	5,675.74	-1,856.24	268.84	292.16	-243.23	0.00
5,700.00	6.45	47.38	5,677.97	-1,858.47	269.01	292.34	-243.39	0.00
5,800.00	6.45	47.38	5,777.34	-1,957.84	276.61	300.61	-250.26	0.00
5,900.00	6.45	47.38	5,876.71	-2,057.21	284.21	308.87	-257.14	0.00
CHERRY CANYON								
5,941.09	6.45	47.38	5,917.54	-2,098.04	287.34	312.26	-259.97	0.00
6,000.00	6.45	47.38	5,976.07	-2,156.57	291.82	317.13	-264.02	0.00
6,100.00	6.45	47.38	6,075.44	-2,255.94	299.42	325.39	-270.89	0.00
6,200.00	6.45	47.38	6,174.81	-2,355.31	307.02	333.65	-277.77	0.00
6,300.00	6.45	47.38	6,274.18	-2,454.68	314.62	341.91	-284.65	0.00
6,400.00	6.45	47.38	6,373.55	-2,554.05	322.22	350.17	-291.53	0.00
6,500.00	6.45	47.38	6,472.91	-2,653.41	329.82	358.43	-298.40	0.00
6,600.00	6.45	47.38	6,572.28	-2,752.78	337.42	366.69	-305.28	0.00
6,700.00	6.45	47.38	6,671.65	-2,852.15	345.03	374.95	-312.16	0.00
6,800.00	6.45	47.38	6,771.02	-2,951.52	352.63	383.21	-319.04	0.00
6,900.00	6.45	47.38	6,870.39	-3,050.89	360.23	391.47	-325.91	0.00
7,000.00	6.45	47.38	6,969.75	-3,150.25	367.83	399.73	-332.79	0.00
7,100.00	6.45	47.38	7,069.12	-3,249.62	375.43	407.99	-339.67	0.00
BRUSHY CANYON								
7,136.48	6.45	47.38	7,105.37	-3,285.87	378.20	411.01	-342.18	0.00
7,200.00	6.45	47.38	7,168.49	-3,348.99	383.03	416.25	-346.54	0.00
7,300.00	6.45	47.38	7,267.86	-3,448.36	390.63	424.51	-353.42	0.00
7,400.00	6.45	47.38	7,367.23	-3,547.73	398.23	432.77	-360.30	0.00
7,500.00	6.45	47.38	7,466.59	-3,647.09	405.84	441.04	-367.18	0.00
7,600.00	6.45	47.38	7,565.96	-3,746.46	413.44	449.30	-374.05	0.00
7,700.00	6.45	47.38	7,665.33	-3,845.83	421.04	457.56	-380.93	0.00
7,800.00	6.45	47.38	7,764.70	-3,945.20	428.64	465.82	-387.81	0.00
7,900.00	6.45	47.38	7,864.07	-4,044.56	436.24	474.08	-394.68	0.00
8,000.00	6.45	47.38	7,963.43	-4,143.93	443.84	482.34	-401.56	0.00
8,100.00	6.45	47.38	8,062.80	-4,243.30	451.44	490.60	-408.44	0.00
8,200.00	6.45	47.38	8,162.17	-4,342.67	459.04	498.86	-415.32	0.00
Begin 2.00°/100' Drop								
8,216.34	6.45	47.38	8,178.41	-4,358.91	460.29	500.21	-416.44	0.00
8,300.00	4.77	47.38	8,261.66	-4,442.16	465.82	506.23	-421.45	2.00
8,400.00	2.77	47.38	8,361.44	-4,541.94	470.28	511.07	-425.48	2.00
8,500.00	0.77	47.38	8,461.39	-4,641.89	472.37	513.34	-427.37	2.00
Begin Vertical Hold								
8,538.61	0.00	0.00	8,500.00	-4,680.50	472.55	513.53	-427.53	2.00
BSPG_LIME								
8,900.04	0.00	0.00	8,861.43	-5,041.93	472.55	513.53	-427.53	0.00
AVLN								
9,054.18	0.00	0.00	9,015.57	-5,196.07	472.55	513.53	-427.53	0.00
LEONARD B								
9,271.80	0.00	0.00	9,233.19	-5,413.69	472.55	513.53	-427.53	0.00
1ST BSPG SAND								
9,761.44	0.00	0.00	9,722.83	-5,903.33	472.55	513.53	-427.53	0.00
2ND BSPG								
10,163.43	0.00	0.00	10,124.82	-6,305.32	472.55	513.53	-427.53	0.00
2 BSPG SND								



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 703H
Company:	Ascent Energy	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site:	Big Stag Fed Com	North Reference:	Grid
Well:	703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68166		
Design:	Plan 1 07-22-21		

Planned Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
10,420.34	0.00	0.00	10,381.73	-6,562.23	472.55	513.53	-427.53	0.00
KOP2, Begin 10.00°/100' Build								
10,665.66	0.00	0.00	10,627.04	-6,807.54	472.55	513.53	-427.53	0.00
10,700.00	3.43	179.66	10,661.37	-6,841.87	471.52	513.54	-426.51	10.00
10,800.00	13.43	179.66	10,760.16	-6,940.66	456.87	513.63	-411.90	10.00
10,900.00	23.43	179.66	10,854.91	-7,035.41	425.29	513.81	-380.42	10.00
11,000.00	33.43	179.66	10,942.73	-7,123.23	377.73	514.09	-333.01	10.00
11,100.00	43.43	179.66	11,020.96	-7,201.46	315.65	514.46	-271.12	10.00
11,200.00	53.43	179.66	11,087.23	-7,267.73	240.93	514.89	-196.63	10.00
11,300.00	63.43	179.66	11,139.51	-7,320.01	155.84	515.39	-111.79	10.00
11,400.00	73.43	179.66	11,176.22	-7,356.72	62.95	515.94	-19.20	10.00
11,500.00	83.43	179.66	11,196.24	-7,376.74	-34.89	516.52	78.35	10.00
LP, Hold 90.00° Inc at 179.66° Azm								
11,565.66	90.00	179.66	11,200.00	-7,380.50	-100.40	516.90	143.66	10.00
11,600.00	90.00	179.66	11,200.00	-7,380.50	-134.74	517.10	177.89	0.00
11,700.00	90.00	179.66	11,200.00	-7,380.50	-234.74	517.69	277.58	0.00
11,800.00	90.00	179.66	11,200.00	-7,380.50	-334.74	518.28	377.28	0.00
11,900.00	90.00	179.66	11,200.00	-7,380.50	-434.74	518.86	476.97	0.00
12,000.00	90.00	179.66	11,200.00	-7,380.50	-534.74	519.45	576.66	0.00
12,100.00	90.00	179.66	11,200.00	-7,380.50	-634.73	520.04	676.35	0.00
12,200.00	90.00	179.66	11,200.00	-7,380.50	-734.73	520.63	776.04	0.00
12,300.00	90.00	179.66	11,200.00	-7,380.50	-834.73	521.21	875.73	0.00
12,400.00	90.00	179.66	11,200.00	-7,380.50	-934.73	521.80	975.42	0.00
12,500.00	90.00	179.66	11,200.00	-7,380.50	-1,034.73	522.39	1,075.11	0.00
12,600.00	90.00	179.66	11,200.00	-7,380.50	-1,134.73	522.98	1,174.81	0.00
12,700.00	90.00	179.66	11,200.00	-7,380.50	-1,234.72	523.56	1,274.50	0.00
12,800.00	90.00	179.66	11,200.00	-7,380.50	-1,334.72	524.15	1,374.19	0.00
12,900.00	90.00	179.66	11,200.00	-7,380.50	-1,434.72	524.74	1,473.88	0.00
13,000.00	90.00	179.66	11,200.00	-7,380.50	-1,534.72	525.33	1,573.57	0.00
13,100.00	90.00	179.66	11,200.00	-7,380.50	-1,634.72	525.91	1,673.26	0.00
13,200.00	90.00	179.66	11,200.00	-7,380.50	-1,734.72	526.50	1,772.95	0.00
13,300.00	90.00	179.66	11,200.00	-7,380.50	-1,834.71	527.09	1,872.64	0.00
13,400.00	90.00	179.66	11,200.00	-7,380.50	-1,934.71	527.68	1,972.34	0.00
13,500.00	90.00	179.66	11,200.00	-7,380.50	-2,034.71	528.26	2,072.03	0.00
13,600.00	90.00	179.66	11,200.00	-7,380.50	-2,134.71	528.85	2,171.72	0.00
13,700.00	90.00	179.66	11,200.00	-7,380.50	-2,234.71	529.44	2,271.41	0.00
13,800.00	90.00	179.66	11,200.00	-7,380.50	-2,334.71	530.03	2,371.10	0.00
13,900.00	90.00	179.66	11,200.00	-7,380.50	-2,434.70	530.61	2,470.79	0.00
14,000.00	90.00	179.66	11,200.00	-7,380.50	-2,534.70	531.20	2,570.48	0.00
14,100.00	90.00	179.66	11,200.00	-7,380.50	-2,634.70	531.79	2,670.17	0.00
14,200.00	90.00	179.66	11,200.00	-7,380.50	-2,734.70	532.38	2,769.87	0.00
14,300.00	90.00	179.66	11,200.00	-7,380.50	-2,834.70	532.96	2,869.56	0.00
14,400.00	90.00	179.66	11,200.00	-7,380.50	-2,934.70	533.55	2,969.25	0.00
14,500.00	90.00	179.66	11,200.00	-7,380.50	-3,034.69	534.14	3,068.94	0.00
14,600.00	90.00	179.66	11,200.00	-7,380.50	-3,134.69	534.73	3,168.63	0.00
14,700.00	90.00	179.66	11,200.00	-7,380.50	-3,234.69	535.31	3,268.32	0.00
14,800.00	90.00	179.66	11,200.00	-7,380.50	-3,334.69	535.90	3,368.01	0.00
14,900.00	90.00	179.66	11,200.00	-7,380.50	-3,434.69	536.49	3,467.70	0.00
15,000.00	90.00	179.66	11,200.00	-7,380.50	-3,534.68	537.08	3,567.40	0.00
15,100.00	90.00	179.66	11,200.00	-7,380.50	-3,634.68	537.66	3,667.09	0.00
15,200.00	90.00	179.66	11,200.00	-7,380.50	-3,734.68	538.25	3,766.78	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 703H
Company:	Ascent Energy	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site:	Big Stag Fed Com	North Reference:	Grid
Well:	703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68166		
Design:	Plan 1 07-22-21		

Planned Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
15,300.00	90.00	179.66	11,200.00	-7,380.50	-3,834.68	538.84	3,866.47	0.00
15,400.00	90.00	179.66	11,200.00	-7,380.50	-3,934.68	539.42	3,966.16	0.00
15,500.00	90.00	179.66	11,200.00	-7,380.50	-4,034.68	540.01	4,065.85	0.00
15,600.00	90.00	179.66	11,200.00	-7,380.50	-4,134.67	540.60	4,165.54	0.00
15,700.00	90.00	179.66	11,200.00	-7,380.50	-4,234.67	541.19	4,265.23	0.00
15,800.00	90.00	179.66	11,200.00	-7,380.50	-4,334.67	541.77	4,364.93	0.00
15,900.00	90.00	179.66	11,200.00	-7,380.50	-4,434.67	542.36	4,464.62	0.00
16,000.00	90.00	179.66	11,200.00	-7,380.50	-4,534.67	542.95	4,564.31	0.00
16,100.00	90.00	179.66	11,200.00	-7,380.50	-4,634.67	543.54	4,664.00	0.00
16,200.00	90.00	179.66	11,200.00	-7,380.50	-4,734.66	544.12	4,763.69	0.00
16,300.00	90.00	179.66	11,200.00	-7,380.50	-4,834.66	544.71	4,863.38	0.00
16,400.00	90.00	179.66	11,200.00	-7,380.50	-4,934.66	545.30	4,963.07	0.00
16,500.00	90.00	179.66	11,200.00	-7,380.50	-5,034.66	545.89	5,062.76	0.00
16,600.00	90.00	179.66	11,200.00	-7,380.50	-5,134.66	546.47	5,162.46	0.00
16,700.00	90.00	179.66	11,200.00	-7,380.50	-5,234.66	547.06	5,262.15	0.00
16,800.00	90.00	179.66	11,200.00	-7,380.50	-5,334.65	547.65	5,361.84	0.00
16,900.00	90.00	179.66	11,200.00	-7,380.50	-5,434.65	548.24	5,461.53	0.00
17,000.00	90.00	179.66	11,200.00	-7,380.50	-5,534.65	548.82	5,561.22	0.00
17,100.00	90.00	179.66	11,200.00	-7,380.50	-5,634.65	549.41	5,660.91	0.00
17,200.00	90.00	179.66	11,200.00	-7,380.50	-5,734.65	550.00	5,760.60	0.00
17,300.00	90.00	179.66	11,200.00	-7,380.50	-5,834.65	550.59	5,860.29	0.00
17,400.00	90.00	179.66	11,200.00	-7,380.50	-5,934.64	551.17	5,959.99	0.00
17,500.00	90.00	179.66	11,200.00	-7,380.50	-6,034.64	551.76	6,059.68	0.00
17,600.00	90.00	179.66	11,200.00	-7,380.50	-6,134.64	552.35	6,159.37	0.00
17,700.00	90.00	179.66	11,200.00	-7,380.50	-6,234.64	552.94	6,259.06	0.00
17,800.00	90.00	179.66	11,200.00	-7,380.50	-6,334.64	553.52	6,358.75	0.00
17,900.00	90.00	179.66	11,200.00	-7,380.50	-6,434.63	554.11	6,458.44	0.00
18,000.00	90.00	179.66	11,200.00	-7,380.50	-6,534.63	554.70	6,558.13	0.00
TD at 18017.27								
18,017.27	90.00	179.66	11,200.00	-7,380.50	-6,551.90	554.80	6,575.35	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP - Big Stag Fed Com - hit/miss target - Shape	0.00	0.00	11,200.00	-6,501.90	554.50	540,105.00	759,696.30	32.482819	-103.625195
- plan misses target center by 0.01usft at 17967.27usft MD (11200.00 TVD, -6501.90 N, 554.51 E)									
- Point									
BHL - Big Stag Fed Corr - plan hits target center - Point	0.00	0.00	11,200.00	-6,551.90	554.80	540,055.00	759,696.60	32.482681	-103.625195
FTP - Big Stag Fed Corr - plan hits target center - Point	0.00	0.00	11,200.00	-100.40	516.90	546,506.50	759,658.70	32.500415	-103.625179



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 703H
Company:	Ascent Energy	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Project:	Lea County, New Mexico (NAD83)	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site:	Big Stag Fed Com	North Reference:	Grid
Well:	703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / 68166		
Design:	Plan 1 07-22-21		

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
18,014.71	11,200.00	20" Casing	20	24

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,565.18	1,565.18	RSTLR		0.00	175.16
1,899.67	1,899.67	SALADO		0.00	175.16
3,173.15	3,167.09	TANSIL		0.00	175.16
3,285.69	3,278.92	YATES		0.00	175.16
3,598.98	3,590.23	CAPITAN REEF TOP		0.00	175.16
5,697.76	5,675.74	TOP DELAWARE SAND		0.00	175.16
5,941.09	5,917.54	CHERRY CANYON		0.00	175.16
7,136.48	7,105.37	BRUSHY CANYON		0.00	175.16
8,900.04	8,861.43	BSPG_LIME		0.00	175.16
9,054.18	9,015.57	AVLN		0.00	175.16
9,271.80	9,233.19	LEONARD B		0.00	175.16
9,761.44	9,722.83	1ST BSPG SAND		0.00	175.16
10,163.43	10,124.82	2ND BSPG		0.00	175.16
10,420.34	10,381.73	2 BSPG SND		0.00	175.16

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	KOP, Begin 2.00°/100' Build
2,322.27	2,321.59	12.26	13.32	Hold 6.45° Inc at 47.38° Azm
8,216.34	8,178.41	460.29	500.21	Begin 2.00°/100' Drop
8,538.61	8,500.00	472.55	513.53	Begin Vertical Hold
10,665.66	10,627.04	472.55	513.53	KOP2, Begin 10.00°/100' Build
11,565.66	11,200.00	-100.40	516.90	LP, Hold 90.00° Inc at 179.66° Azm
18,017.27	11,200.00	-6,551.90	554.80	TD at 18017.27



Ascent Energy

Lea County, New Mexico (NAD83)

Big Stag Fed Com

703H

OH / 68166

Plan 1 07-22-21

Anticollision Report

22 July, 2021





Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Reference	Plan 1 07-22-21		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 50,000.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	7/22/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	18,017.27	Plan 1 07-22-21 (OH / 68166)	MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Big Bucks Fed Com						
501H - OH / 67650 - Surveys (H&P 625)	5,892.58	5,797.00	1,568.21	1,543.72	64.050	CC
501H - OH / 67650 - Surveys (H&P 625)	5,900.00	5,797.00	1,568.22	1,543.72	63.999	ES
501H - OH / 67650 - Surveys (H&P 625)	6,100.00	5,797.00	1,581.86	1,556.92	63.424	SF
501H - ST01 / 67650 - Surveys (H&P 625)	16,701.96	15,733.57	1,384.19	1,225.36	8.715	CC
501H - ST01 / 67650 - Surveys (H&P 625)	18,017.27	17,018.55	1,402.09	1,208.65	7.248	ES, SF
502H - OH / 67652 - Surveys (H&P 625)	16,929.06	16,101.95	527.43	385.52	3.717	CC
502H - OH / 67652 - Surveys (H&P 625)	18,017.27	17,190.00	536.33	368.22	3.190	ES, SF
Big Bucks/ Big Stag Offsets						
Minis 1 Fed 3BS 7H - OH - Surveys	11,447.18	19,300.00	632.48	493.04	4.536	CC, ES, SF
Minis 1 Fed Com 2BS 11H - OH - Surveys	10,829.02	17,904.88	512.61	364.22	3.455	CC, ES, SF
Minis 1 Fed Com 3BS 6H - OH - Surveys	11,464.66	18,949.00	843.35	705.62	6.123	CC, ES
Minis 1 Fed Com 3BS 6H - OH - Surveys	11,500.00	18,949.00	844.63	706.68	6.123	SF
Minis 1 Fed Com WCA 10H - OH - Surveys	11,461.55	18,850.00	531.93	432.26	5.337	CC, ES, SF
Minis Fed Com WCA 16H - OH - Surveys	11,459.97	19,030.00	1,345.72	1,201.49	9.331	CC, ES
Minis Fed Com WCA 16H - OH - Surveys	11,500.00	19,030.00	1,346.81	1,202.08	9.306	SF
Big Stag Fed Com						
503H - OH / 67940 - Surveys (H&P 625)	2,098.30	2,099.05	20.76	9.53	1.848	CC
503H - OH / 67940 - Surveys (H&P 625)	2,100.00	2,100.75	20.76	9.52	1.847	ES, SF
504H - OH / 67941 - Surveys (H&P 625)	0.00	0.00	50.00			
504H - OH / 67941 - Surveys (H&P 625)	2,034.24	2,034.87	52.41	40.97	4.581	ES
504H - OH / 67941 - Surveys (H&P 625)	2,100.00	2,100.66	53.06	41.41	4.553	SF

Offset Design: Big Bucks Fed Com - 501H - OH / 67650 - Surveys (H&P 625)												Offset Site Error:	1.00 usft
Survey Program:		250-MWD+HRGM				Rule Assigned:				Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
0.00	0.00	17.84	-0.16	1.41	1.01	92.90	-89.40	1,766.30	1,768.56				
100.00	100.00	116.98	98.98	1.47	1.34	92.89	-89.32	1,766.34	1,768.60	1,765.78	2.82	628.222	
200.00	200.00	216.11	198.11	1.89	1.93	92.89	-89.14	1,766.43	1,768.68	1,764.86	3.81	463.741	
300.00	300.00	317.36	299.36	2.24	2.42	92.88	-88.87	1,766.53	1,768.77	1,764.12	4.65	380.111	
400.00	400.00	425.53	407.53	2.56	2.72	92.87	-88.59	1,766.37	1,768.61	1,763.36	5.24	337.208	
500.00	500.00	523.20	505.20	2.84	2.95	92.87	-88.38	1,766.03	1,768.24	1,762.50	5.75	307.695	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 501H - OH / 67650 - Surveys (H&P 625)												Offset Site Error: 1.00 usft	
Survey Program: 250-MWD+HRGM												Offset Well Error: 0.00 usft	
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
600.00	600.00	622.71	604.70	3.09	3.18	92.86	-88.25	1,765.76	1,767.97	1,761.74	6.23	284.005	
700.00	700.00	724.10	706.09	3.33	3.39	92.86	-88.24	1,765.46	1,767.68	1,760.99	6.68	264.544	
800.00	800.00	824.73	806.72	3.56	3.60	92.87	-88.40	1,765.04	1,767.26	1,760.14	7.12	248.103	
900.00	900.00	921.99	903.98	3.77	3.79	92.87	-88.44	1,764.78	1,767.00	1,759.47	7.53	234.545	
1,000.00	1,000.00	1,019.45	1,001.45	3.97	3.95	92.87	-88.55	1,764.57	1,766.79	1,758.88	7.91	223.502	
1,019.99	1,019.99	1,038.00	1,019.99	4.01	3.98	92.87	-88.57	1,764.56	1,766.78	1,758.81	7.97	221.692	
1,100.00	1,100.00	1,113.77	1,095.77	4.17	4.07	92.88	-88.70	1,764.66	1,766.89	1,758.66	8.23	214.816	
1,200.00	1,200.00	1,207.44	1,189.43	4.36	4.18	92.89	-89.13	1,765.00	1,767.28	1,758.75	8.53	207.222	
1,300.00	1,300.00	1,310.98	1,292.97	4.54	4.30	92.91	-89.63	1,765.64	1,767.93	1,759.09	8.83	200.108	
1,400.00	1,400.00	1,417.14	1,399.13	4.71	4.44	92.93	-90.29	1,765.79	1,768.10	1,758.95	9.15	193.174	
1,500.00	1,500.00	1,521.78	1,503.77	4.89	4.59	92.93	-90.50	1,765.69	1,768.02	1,758.55	9.47	186.742	
1,577.15	1,577.15	1,595.16	1,577.15	5.01	4.68	92.93	-90.51	1,765.61	1,767.93	1,758.23	9.69	182.412	
1,600.00	1,600.00	1,616.74	1,598.73	5.05	4.72	92.93	-90.46	1,765.62	1,767.93	1,758.17	9.77	180.977	
1,700.00	1,700.00	1,711.66	1,693.64	5.22	4.88	92.91	-89.83	1,765.87	1,768.16	1,758.07	10.09	175.172	
1,800.00	1,800.00	1,807.45	1,789.43	5.37	5.01	92.89	-89.12	1,766.34	1,768.62	1,758.24	10.38	170.372	
1,900.00	1,900.00	1,901.14	1,883.11	5.53	5.12	92.87	-88.58	1,767.12	1,769.42	1,758.77	10.65	166.209	
2,000.00	2,000.00	2,001.00	1,982.97	5.68	5.24	92.84	-87.85	1,768.16	1,770.42	1,759.51	10.92	162.146	
2,100.00	2,099.98	2,106.08	2,088.05	5.96	5.39	45.49	-87.14	1,769.03	1,770.00	1,758.75	11.25	157.402	
2,200.00	2,199.84	2,205.35	2,187.31	6.52	5.53	45.63	-86.46	1,769.70	1,766.97	1,755.24	11.72	150.746	
2,300.00	2,299.45	2,300.07	2,282.02	7.05	5.67	45.87	-85.76	1,770.54	1,761.72	1,749.54	12.19	144.578	
2,400.00	2,398.83	2,394.25	2,376.18	7.19	5.85	46.09	-84.33	1,771.70	1,755.09	1,742.67	12.43	141.243	
2,500.00	2,498.20	2,483.54	2,465.39	7.38	6.10	46.22	-81.08	1,773.23	1,748.80	1,736.09	12.72	137.521	
2,600.00	2,597.57	2,567.69	2,549.40	7.60	6.37	46.29	-76.69	1,775.47	1,743.35	1,730.32	13.02	133.880	
2,700.00	2,696.93	2,651.64	2,633.08	7.82	6.69	46.31	-70.70	1,778.52	1,738.76	1,725.41	13.35	130.277	
2,800.00	2,796.30	2,729.00	2,709.98	8.07	7.08	46.27	-63.22	1,782.29	1,735.26	1,721.57	13.69	126.787	
2,900.00	2,895.67	2,808.91	2,789.14	8.32	7.52	46.15	-53.47	1,787.28	1,732.99	1,718.93	14.06	123.275	
3,000.00	2,995.04	2,882.43	2,861.69	8.59	7.87	45.99	-43.06	1,792.96	1,732.09	1,717.67	14.42	120.095	
3,006.35	3,001.35	2,887.03	2,866.23	8.61	7.89	45.98	-42.38	1,793.35	1,732.09	1,717.65	14.45	119.900	
3,100.00	3,094.40	2,954.25	2,932.33	8.87	8.19	45.80	-31.97	1,799.68	1,732.80	1,718.01	14.80	117.089	
3,200.00	3,193.77	3,028.11	3,004.65	9.16	8.50	45.57	-19.39	1,807.85	1,735.17	1,719.97	15.20	114.183	
3,300.00	3,293.14	3,115.09	3,089.56	9.46	8.81	45.26	-3.75	1,818.41	1,738.65	1,723.01	15.63	111.208	
3,400.00	3,392.51	3,213.49	3,185.48	9.76	9.10	44.90	14.41	1,830.69	1,742.52	1,726.42	16.10	108.215	
3,500.00	3,491.88	3,310.31	3,279.86	10.08	9.41	44.55	32.19	1,842.95	1,746.65	1,730.06	16.60	105.234	
3,600.00	3,591.24	3,428.90	3,395.64	10.40	9.81	44.14	53.40	1,857.37	1,750.36	1,733.19	17.18	101.903	
3,700.00	3,690.61	3,552.26	3,516.66	10.73	10.28	43.79	73.22	1,870.77	1,752.84	1,735.05	17.79	98.521	
3,800.00	3,789.98	3,710.77	3,673.16	11.06	10.99	43.50	94.26	1,884.44	1,753.21	1,734.69	18.52	94.669	
3,900.00	3,889.35	3,850.32	3,811.79	11.40	11.62	43.39	108.12	1,892.13	1,750.36	1,731.22	19.13	91.476	
4,000.00	3,988.72	3,976.89	3,937.97	11.74	12.12	43.43	116.77	1,896.85	1,745.82	1,726.16	19.66	88.782	
4,100.00	4,088.08	4,101.45	4,062.42	12.09	12.58	43.60	121.22	1,899.72	1,739.93	1,719.77	20.16	86.313	
4,200.00	4,187.45	4,237.22	4,198.17	12.44	12.79	43.90	122.73	1,900.36	1,732.26	1,711.76	20.50	84.517	
4,300.00	4,286.82	4,358.40	4,319.33	12.79	12.69	44.25	121.60	1,898.68	1,722.78	1,702.09	20.68	83.293	
4,400.00	4,386.19	4,460.61	4,421.50	13.15	12.57	44.57	120.18	1,896.64	1,712.78	1,691.89	20.88	82.015	
4,500.00	4,485.56	4,565.36	4,526.20	13.51	12.44	44.93	117.90	1,894.25	1,702.57	1,681.48	21.09	80.747	
4,600.00	4,584.92	4,671.92	4,632.68	13.88	12.30	45.32	114.96	1,891.37	1,692.03	1,670.74	21.29	79.484	
4,700.00	4,684.29	4,775.56	4,736.21	14.24	12.17	45.73	111.30	1,888.10	1,681.15	1,659.65	21.50	78.209	
4,800.00	4,783.66	4,876.02	4,836.53	14.61	12.03	46.16	107.20	1,884.73	1,670.18	1,648.47	21.71	76.926	
4,900.00	4,883.03	4,973.88	4,934.26	14.99	11.91	46.58	103.22	1,881.42	1,659.27	1,637.34	21.94	75.639	
5,000.00	4,982.40	5,070.94	5,031.19	15.36	11.80	46.99	99.45	1,878.22	1,648.54	1,626.37	22.17	74.358	
5,100.00	5,081.76	5,166.61	5,126.75	15.73	11.69	47.40	95.86	1,875.21	1,638.03	1,615.61	22.41	73.087	
5,200.00	5,181.13	5,262.17	5,222.19	16.11	11.60	47.81	92.23	1,872.39	1,627.80	1,605.14	22.66	71.838	
5,300.00	5,280.50	5,362.35	5,322.26	16.49	11.51	48.25	88.42	1,869.51	1,617.74	1,594.83	22.91	70.622	
5,400.00	5,379.87	5,458.29	5,418.10	16.87	11.43	48.67	84.92	1,866.77	1,607.77	1,584.61	23.16	69.415	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 501H - OH / 67650 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 250-MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,500.00	5,479.23	5,557.90	5,517.60	17.25	11.36	49.11	81.45	1,864.02	1,597.99	1,574.57	23.42	68.236	
5,600.00	5,578.60	5,654.00	5,613.62	17.64	11.30	49.53	78.21	1,861.50	1,588.40	1,564.72	23.68	67.073	
5,700.00	5,677.97	5,747.13	5,706.68	18.02	11.24	49.93	75.38	1,859.37	1,579.20	1,555.27	23.93	65.981	
5,800.00	5,777.34	5,797.00	5,756.52	18.41	11.21	50.15	73.96	1,858.28	1,570.94	1,546.72	24.22	64.871	
5,892.58	5,869.33	5,797.00	5,756.52	18.77	11.21	50.15	73.96	1,858.28	1,568.21	1,543.72	24.48	64.050 CC	
5,900.00	5,876.71	5,797.00	5,756.52	18.79	11.21	50.15	73.96	1,858.28	1,568.22	1,543.72	24.50	63.999 ES	
6,000.00	5,976.07	5,797.00	5,756.52	19.18	11.21	50.15	73.96	1,858.28	1,571.88	1,547.14	24.75	63.522	
6,100.00	6,075.44	5,797.00	5,756.52	19.57	11.21	50.15	73.96	1,858.28	1,581.86	1,556.92	24.94	63.424 SF	
6,200.00	6,174.81	5,797.00	5,756.52	19.96	11.21	50.15	73.96	1,858.28	1,598.06	1,572.96	25.09	63.688	
6,300.00	6,274.18	5,797.00	5,756.52	20.35	11.21	50.15	73.96	1,858.28	1,620.27	1,595.07	25.20	64.294	
6,400.00	6,373.55	5,797.00	5,756.52	20.74	11.21	50.15	73.96	1,858.28	1,648.26	1,622.98	25.27	65.218	
6,500.00	6,472.91	5,797.00	5,756.52	21.14	11.21	50.15	73.96	1,858.28	1,681.74	1,656.42	25.31	66.436	
6,600.00	6,572.28	5,797.00	5,756.52	21.53	11.21	50.15	73.96	1,858.28	1,720.38	1,695.05	25.33	67.922	
6,700.00	6,671.65	5,797.00	5,756.52	21.92	11.21	50.15	73.96	1,858.28	1,763.86	1,738.53	25.33	69.649	
6,800.00	6,771.02	5,797.00	5,756.52	22.32	11.21	50.15	73.96	1,858.28	1,811.82	1,786.51	25.31	71.591	
6,900.00	6,870.39	5,797.00	5,756.52	22.71	11.21	50.15	73.96	1,858.28	1,863.91	1,838.63	25.28	73.723	
7,000.00	6,969.75	5,797.00	5,756.52	23.11	11.21	50.15	73.96	1,858.28	1,919.81	1,894.55	25.25	76.018	
7,100.00	7,069.12	5,797.00	5,756.52	23.51	11.21	50.15	73.96	1,858.28	1,979.18	1,953.95	25.23	78.453	
7,200.00	7,168.49	5,797.00	5,756.52	23.90	11.21	50.15	73.96	1,858.28	2,041.72	2,016.52	25.20	81.005	
7,300.00	7,267.86	5,797.00	5,756.52	24.30	11.21	50.15	73.96	1,858.28	2,107.16	2,081.97	25.19	83.653	
7,400.00	7,367.23	5,797.00	5,756.52	24.70	11.21	50.15	73.96	1,858.28	2,175.22	2,150.04	25.18	86.378	
7,500.00	7,466.59	5,797.00	5,756.52	25.10	11.21	50.15	73.96	1,858.28	2,245.68	2,220.49	25.19	89.162	
7,600.00	7,565.96	5,797.00	5,756.52	25.50	11.21	50.15	73.96	1,858.28	2,318.31	2,293.11	25.20	91.990	
7,700.00	7,665.33	5,797.00	5,756.52	25.90	11.21	50.15	73.96	1,858.28	2,392.92	2,367.69	25.23	94.846	
7,800.00	7,764.70	5,797.00	5,756.52	26.30	11.21	50.15	73.96	1,858.28	2,469.32	2,444.05	25.27	97.718	
7,900.00	7,864.07	5,797.00	5,756.52	26.70	11.21	50.15	73.96	1,858.28	2,547.35	2,522.03	25.32	100.594	
8,000.00	7,963.43	5,797.00	5,756.52	27.10	11.21	50.15	73.96	1,858.28	2,626.88	2,601.49	25.39	103.465	
8,100.00	8,062.80	5,797.00	5,756.52	27.50	11.21	50.15	73.96	1,858.28	2,707.76	2,682.30	25.47	106.322	
8,200.00	8,162.17	5,797.00	5,756.52	27.90	11.21	50.15	73.96	1,858.28	2,789.89	2,764.33	25.56	109.158	
8,300.00	8,261.66	5,797.00	5,756.52	28.29	11.21	52.15	73.96	1,858.28	2,873.56	2,847.90	25.66	111.990	
8,400.00	8,361.44	5,797.00	5,756.52	28.72	11.21	54.83	73.96	1,858.28	2,959.34	2,933.55	25.79	114.766	
8,500.00	8,461.39	5,797.00	5,756.52	29.10	11.21	57.86	73.96	1,858.28	3,046.95	3,021.03	25.92	117.555	
8,600.00	8,561.39	5,797.00	5,756.52	29.17	11.21	106.51	73.96	1,858.28	3,136.00	3,109.97	26.03	120.498	
8,700.00	8,661.39	5,797.00	5,756.52	29.21	11.21	106.51	73.96	1,858.28	3,225.75	3,199.61	26.14	123.393	
8,800.00	8,761.39	5,797.00	5,756.52	29.25	11.21	106.51	73.96	1,858.28	3,316.09	3,289.82	26.27	126.217	
8,900.00	8,861.39	5,797.00	5,756.52	29.29	11.21	106.51	73.96	1,858.28	3,406.97	3,380.55	26.42	128.971	
9,000.00	8,961.39	5,797.00	5,756.52	29.33	11.21	106.51	73.96	1,858.28	3,498.34	3,471.77	26.57	131.656	
9,100.00	9,061.39	5,797.00	5,756.52	29.37	11.21	106.51	73.96	1,858.28	3,590.18	3,563.44	26.74	134.271	
9,200.00	9,161.39	5,797.00	5,756.52	29.41	11.21	106.51	73.96	1,858.28	3,682.44	3,655.52	26.92	136.815	
9,300.00	9,261.39	5,797.00	5,756.52	29.45	11.21	106.51	73.96	1,858.28	3,775.09	3,747.99	27.10	139.290	
9,400.00	9,361.39	5,797.00	5,756.52	29.49	11.21	106.51	73.96	1,858.28	3,868.11	3,840.81	27.30	141.695	
9,500.00	9,461.39	5,797.00	5,756.52	29.54	11.21	106.51	73.96	1,858.28	3,961.47	3,933.97	27.50	144.030	
9,600.00	9,561.39	5,797.00	5,756.52	29.58	11.21	106.51	73.96	1,858.28	4,055.15	4,027.43	27.72	146.298	
9,700.00	9,661.39	5,797.00	5,756.52	29.62	11.21	106.51	73.96	1,858.28	4,149.12	4,121.18	27.94	148.497	
9,800.00	9,761.39	5,797.00	5,756.52	29.66	11.21	106.51	73.96	1,858.28	4,243.37	4,215.20	28.17	150.631	
9,900.00	9,861.39	5,797.00	5,756.52	29.70	11.21	106.51	73.96	1,858.28	4,337.87	4,309.47	28.41	152.699	
10,000.00	9,961.39	5,797.00	5,756.52	29.74	11.21	106.51	73.96	1,858.28	4,432.62	4,403.97	28.65	154.704	
10,100.00	10,061.39	5,797.00	5,756.52	29.79	11.21	106.51	73.96	1,858.28	4,527.59	4,498.69	28.90	156.645	
10,200.00	10,161.39	5,797.00	5,756.52	29.83	11.21	106.51	73.96	1,858.28	4,622.78	4,593.62	29.16	158.525	
10,300.00	10,261.39	5,797.00	5,756.52	29.87	11.21	106.51	73.96	1,858.28	4,718.16	4,688.74	29.43	160.345	
10,400.00	10,361.39	5,797.00	5,756.52	29.91	11.21	106.51	73.96	1,858.28	4,813.73	4,784.04	29.70	162.105	
10,500.00	10,461.39	5,797.00	5,756.52	29.96	11.21	106.51	73.96	1,858.28	4,909.48	4,879.51	29.97	163.808	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 501H - OH / 67650 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 250-MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,600.00	10,561.39	5,797.00	5,756.52	30.00	11.21	106.51	73.96	1,858.28	5,005.39	4,975.14	30.25	165.455	
10,700.00	10,661.37	5,797.00	5,756.52	29.99	11.21	-62.51	73.96	1,858.28	5,101.36	5,070.82	30.54	167.041	
10,800.00	10,760.16	5,797.00	5,756.52	29.85	11.21	-41.03	73.96	1,858.28	5,195.30	5,164.43	30.87	168.293	
10,900.00	10,854.91	5,797.00	5,756.52	29.67	11.21	-29.66	73.96	1,858.28	5,284.37	5,253.11	31.26	169.037	
11,000.00	10,942.73	5,797.00	5,756.52	29.48	11.21	-23.30	73.96	1,858.28	5,366.18	5,334.47	31.72	169.190	
11,100.00	11,020.96	5,797.00	5,756.52	29.30	11.21	-19.45	73.96	1,858.28	5,438.63	5,406.39	32.24	168.703	
11,200.00	11,087.23	5,797.00	5,756.52	29.16	11.21	-17.02	73.96	1,858.28	5,499.91	5,467.09	32.82	167.564	
11,300.00	11,139.51	5,797.00	5,756.52	29.08	11.21	-15.46	73.96	1,858.28	5,548.57	5,515.10	33.47	165.798	
11,400.00	11,176.22	5,797.00	5,756.52	29.08	11.21	-14.49	73.96	1,858.28	5,583.47	5,549.31	34.16	163.458	
11,500.00	11,196.24	5,797.00	5,756.52	29.18	11.21	-13.98	73.96	1,858.28	5,603.82	5,568.93	34.89	160.623	
11,600.00	11,200.00	5,797.00	5,756.52	29.38	11.21	-13.85	73.96	1,858.28	5,610.15	5,574.65	35.50	158.041	
11,700.00	11,200.00	5,797.00	5,756.52	29.63	11.21	-13.85	73.96	1,858.28	5,614.62	5,578.63	35.99	156.020	
11,800.00	11,200.00	5,797.00	5,756.52	29.92	11.21	-13.85	73.96	1,858.28	5,620.87	5,584.35	36.51	153.937	
11,900.00	11,200.00	5,797.00	5,756.52	30.26	11.21	-13.85	73.96	1,858.28	5,628.88	5,591.81	37.07	151.827	
12,000.00	11,200.00	5,797.00	5,756.52	30.63	11.21	-13.85	73.96	1,858.28	5,638.66	5,600.99	37.66	149.710	
12,100.00	11,200.00	5,797.00	5,756.52	31.05	11.21	-13.85	73.96	1,858.28	5,650.19	5,611.91	38.28	147.603	
12,200.00	11,200.00	5,797.00	5,756.52	31.52	11.21	-13.85	73.96	1,858.28	5,663.46	5,624.54	38.92	145.520	
12,300.00	11,200.00	5,797.00	5,756.52	32.03	11.21	-13.85	73.96	1,858.28	5,678.46	5,638.89	39.58	143.474	
12,400.00	11,200.00	5,797.00	5,756.52	32.59	11.21	-13.85	73.96	1,858.28	5,695.18	5,654.93	40.26	141.476	
12,500.00	11,200.00	5,797.00	5,756.52	33.20	11.21	-13.85	73.96	1,858.28	5,713.60	5,672.66	40.95	139.536	
12,600.00	11,200.00	5,797.00	5,756.52	33.85	11.21	-13.85	73.96	1,858.28	5,733.71	5,692.06	41.65	137.659	
12,700.00	11,200.00	5,797.00	5,756.52	34.55	11.21	-13.85	73.96	1,858.28	5,755.48	5,713.12	42.37	135.854	
12,800.00	11,200.00	5,797.00	5,756.52	35.30	11.21	-13.85	73.96	1,858.28	5,778.91	5,735.82	43.09	134.122	
12,900.00	11,200.00	5,797.00	5,756.52	36.08	11.21	-13.85	73.96	1,858.28	5,803.96	5,760.14	43.81	132.469	
13,000.00	11,200.00	5,797.00	5,756.52	36.91	11.21	-13.85	73.96	1,858.28	5,830.62	5,786.07	44.54	130.895	
13,100.00	11,200.00	5,797.00	5,756.52	37.78	11.21	-13.85	73.96	1,858.28	5,858.86	5,813.59	45.28	129.402	
13,200.00	11,200.00	5,797.00	5,756.52	38.69	11.21	-13.85	73.96	1,858.28	5,888.67	5,842.66	46.01	127.992	
13,300.00	11,200.00	5,797.00	5,756.52	39.63	11.21	-13.85	73.96	1,858.28	5,920.02	5,873.28	46.74	126.662	
13,400.00	11,200.00	5,797.00	5,756.52	40.61	11.21	-13.85	73.96	1,858.28	5,952.88	5,905.41	47.47	125.413	
13,500.00	11,200.00	5,797.00	5,756.52	41.62	11.21	-13.85	73.96	1,858.28	5,987.23	5,939.04	48.19	124.244	
13,600.00	11,200.00	5,797.00	5,756.52	42.65	11.21	-13.85	73.96	1,858.28	6,023.05	5,974.14	48.91	123.153	
13,700.00	11,200.00	5,797.00	5,756.52	43.71	11.21	-13.85	73.96	1,858.28	6,060.30	6,010.68	49.62	122.138	
13,800.00	11,200.00	5,797.00	5,756.52	44.80	11.21	-13.85	73.96	1,858.28	6,098.97	6,048.64	50.32	121.197	
13,900.00	11,200.00	5,797.00	5,756.52	45.91	11.21	-13.85	73.96	1,858.28	6,139.02	6,088.00	51.02	120.330	
14,000.00	11,200.00	5,797.00	5,756.52	47.04	11.21	-13.85	73.96	1,858.28	6,180.43	6,128.73	51.71	119.532	
14,100.00	11,200.00	5,797.00	5,756.52	48.19	11.21	-13.85	73.96	1,858.28	6,223.17	6,170.79	52.38	118.802	
14,200.00	11,200.00	5,797.00	5,756.52	49.36	11.21	-13.85	73.96	1,858.28	6,267.22	6,214.17	53.05	118.138	
14,300.00	11,200.00	5,797.00	5,756.52	50.55	11.21	-13.85	73.96	1,858.28	6,312.54	6,258.84	53.71	117.537	
14,400.00	11,200.00	5,797.00	5,756.52	51.75	11.21	-13.85	73.96	1,858.28	6,359.12	6,304.77	54.35	116.997	
14,500.00	11,200.00	5,797.00	5,756.52	52.96	11.21	-13.85	73.96	1,858.28	6,406.91	6,351.93	54.99	116.516	
14,600.00	11,200.00	5,797.00	5,756.52	54.19	11.21	-13.85	73.96	1,858.28	6,455.91	6,400.29	55.61	116.091	
14,700.00	11,200.00	5,797.00	5,756.52	55.42	11.21	-13.85	73.96	1,858.28	6,506.06	6,449.84	56.22	115.721	
14,800.00	11,200.00	5,797.00	5,756.52	56.67	11.21	-13.85	73.96	1,858.28	6,557.37	6,500.54	56.82	115.403	
14,900.00	11,200.00	5,797.00	5,756.52	57.93	11.21	-13.85	73.96	1,858.28	6,609.78	6,552.37	57.41	115.135	
15,000.00	11,200.00	5,797.00	5,756.52	59.20	11.21	-13.85	73.96	1,858.28	6,663.28	6,605.30	57.98	114.915	
15,100.00	11,200.00	5,797.00	5,756.52	60.48	11.21	-13.85	73.96	1,858.28	6,717.85	6,659.30	58.55	114.741	
15,200.00	11,200.00	5,797.00	5,756.52	61.77	11.21	-13.85	73.96	1,858.28	6,773.45	6,714.36	59.10	114.611	
15,300.00	11,200.00	5,797.00	5,756.52	63.06	11.21	-13.85	73.96	1,858.28	6,830.07	6,770.43	59.64	114.524	
15,400.00	11,200.00	5,797.00	5,756.52	64.36	11.21	-13.85	73.96	1,858.28	6,887.67	6,827.51	60.17	114.478	
15,500.00	11,200.00	5,797.00	5,756.52	65.67	11.21	-13.85	73.96	1,858.28	6,946.24	6,885.55	60.68	114.470	
15,600.00	11,200.00	5,797.00	5,756.52	66.99	11.21	-13.85	73.96	1,858.28	7,005.74	6,944.55	61.19	114.500	
15,700.00	11,200.00	5,797.00	5,756.52	68.31	11.21	-13.85	73.96	1,858.28	7,066.15	7,004.47	61.68	114.565	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 501H - OH / 67650 - Surveys (H&P 625)												Offset Site Error:	1.00 usft
Survey Program: 250-MWD+HRGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,800.00	11,200.00	5,797.00	5,756.52	69.63	11.21	-13.85	73.96	1,858.28	7,127.46	7,065.30	62.16	114.665	
15,900.00	11,200.00	5,797.00	5,756.52	70.96	11.21	-13.85	73.96	1,858.28	7,189.63	7,127.01	62.63	114.798	
16,000.00	11,200.00	5,797.00	5,756.52	72.30	11.21	-13.85	73.96	1,858.28	7,252.65	7,189.57	63.09	114.963	
16,100.00	11,200.00	5,797.00	5,756.52	73.64	11.21	-13.85	73.96	1,858.28	7,316.50	7,252.96	63.53	115.157	
16,200.00	11,200.00	5,797.00	5,756.52	74.98	11.21	-13.85	73.96	1,858.28	7,381.15	7,317.17	63.97	115.381	
16,300.00	11,200.00	5,797.00	5,756.52	76.33	11.21	-13.85	73.96	1,858.28	7,446.58	7,382.18	64.40	115.633	
16,400.00	11,200.00	5,797.00	5,756.52	77.68	11.21	-13.85	73.96	1,858.28	7,512.77	7,447.95	64.81	115.911	
16,500.00	11,200.00	5,797.00	5,756.52	79.03	11.21	-13.85	73.96	1,858.28	7,579.70	7,514.48	65.22	116.215	
16,600.00	11,200.00	5,797.00	5,756.52	80.39	11.21	-13.85	73.96	1,858.28	7,647.35	7,581.73	65.62	116.543	
16,700.00	11,200.00	5,797.00	5,756.52	81.76	11.21	-13.85	73.96	1,858.28	7,715.71	7,649.70	66.01	116.895	
16,800.00	11,200.00	5,797.00	5,756.52	83.12	11.21	-13.85	73.96	1,858.28	7,784.75	7,718.36	66.38	117.269	
16,900.00	11,200.00	5,797.00	5,756.52	84.49	11.21	-13.85	73.96	1,858.28	7,854.46	7,787.70	66.75	117.666	
17,000.00	11,200.00	5,797.00	5,756.52	85.86	11.21	-13.85	73.96	1,858.28	7,924.81	7,857.70	67.11	118.083	
17,100.00	11,200.00	5,797.00	5,756.52	87.23	11.21	-13.85	73.96	1,858.28	7,995.80	7,928.33	67.46	118.519	
17,200.00	11,200.00	5,797.00	5,756.52	88.61	11.21	-13.85	73.96	1,858.28	8,067.40	7,999.59	67.81	118.975	
17,300.00	11,200.00	5,797.00	5,756.52	89.98	11.21	-13.85	73.96	1,858.28	8,139.60	8,071.46	68.14	119.450	
17,400.00	11,200.00	5,797.00	5,756.52	91.36	11.21	-13.85	73.96	1,858.28	8,212.39	8,143.92	68.47	119.942	
17,500.00	11,200.00	5,797.00	5,756.52	92.74	11.21	-13.85	73.96	1,858.28	8,285.74	8,216.95	68.79	120.451	
17,600.00	11,200.00	5,797.00	5,756.52	94.13	11.21	-13.85	73.96	1,858.28	8,359.64	8,290.54	69.10	120.976	
17,700.00	11,200.00	5,797.00	5,756.52	95.51	11.21	-13.85	73.96	1,858.28	8,434.08	8,364.68	69.41	121.517	
17,800.00	11,200.00	5,797.00	5,756.52	96.90	11.21	-13.85	73.96	1,858.28	8,509.05	8,439.35	69.70	122.073	
17,900.00	11,200.00	5,797.00	5,756.52	98.29	11.21	-13.85	73.96	1,858.28	8,584.53	8,514.53	70.00	122.643	
18,000.00	11,200.00	5,797.00	5,756.52	99.68	11.21	-13.85	73.96	1,858.28	8,660.50	8,590.22	70.28	123.228	
18,017.27	11,200.00	5,797.00	5,756.52	99.92	11.21	-13.85	73.96	1,858.28	8,673.67	8,603.34	70.33	123.330	



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 501H - ST01 / 67650 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 250-MWD+HRGM, 3316-MWD+HRGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	17.84	-0.16	1.41	1.01	92.90	-89.40	1,766.30	1,768.56				
100.00	100.00	116.98	98.98	1.47	1.34	92.89	-89.32	1,766.34	1,768.60	1,765.78	2.82	628.222	
200.00	200.00	216.11	198.11	1.89	1.93	92.89	-89.14	1,766.43	1,768.68	1,764.86	3.81	463.741	
300.00	300.00	317.36	299.36	2.24	2.42	92.88	-88.87	1,766.53	1,768.77	1,764.12	4.65	380.111	
400.00	400.00	425.53	407.53	2.56	2.72	92.87	-88.59	1,766.37	1,768.61	1,763.36	5.24	337.208	
500.00	500.00	523.20	505.20	2.84	2.95	92.87	-88.38	1,766.03	1,768.24	1,762.50	5.75	307.695	
600.00	600.00	622.71	604.70	3.09	3.18	92.86	-88.25	1,765.76	1,767.97	1,761.74	6.23	284.005	
700.00	700.00	724.10	706.09	3.33	3.39	92.86	-88.24	1,765.46	1,767.68	1,760.99	6.68	264.544	
800.00	800.00	824.73	806.72	3.56	3.60	92.87	-88.40	1,765.04	1,767.26	1,760.14	7.12	248.103	
900.00	900.00	921.99	903.98	3.77	3.79	92.87	-88.44	1,764.78	1,767.00	1,759.47	7.53	234.545	
1,000.00	1,000.00	1,019.45	1,001.45	3.97	3.95	92.87	-88.55	1,764.57	1,766.79	1,758.88	7.91	223.502	
1,019.99	1,019.99	1,038.00	1,019.99	4.01	3.98	92.87	-88.57	1,764.56	1,766.78	1,758.81	7.97	221.692	
1,100.00	1,100.00	1,113.77	1,095.77	4.17	4.07	92.88	-88.70	1,764.66	1,766.89	1,758.66	8.23	214.816	
1,200.00	1,200.00	1,207.44	1,189.43	4.36	4.18	92.89	-89.13	1,765.00	1,767.28	1,758.75	8.53	207.222	
1,300.00	1,300.00	1,310.98	1,292.97	4.54	4.30	92.91	-89.63	1,765.64	1,767.93	1,759.09	8.83	200.108	
1,400.00	1,400.00	1,417.14	1,399.13	4.71	4.44	92.93	-90.29	1,765.79	1,768.10	1,758.95	9.15	193.174	
1,500.00	1,500.00	1,521.78	1,503.77	4.89	4.59	92.93	-90.50	1,765.69	1,768.02	1,758.55	9.47	186.742	
1,577.15	1,577.15	1,595.16	1,577.15	5.01	4.68	92.93	-90.51	1,765.61	1,767.93	1,758.23	9.69	182.412	
1,600.00	1,600.00	1,616.74	1,598.73	5.05	4.72	92.93	-90.46	1,765.62	1,767.93	1,758.17	9.77	180.977	
1,700.00	1,700.00	1,711.66	1,693.64	5.22	4.88	92.91	-89.83	1,765.87	1,768.16	1,758.07	10.09	175.172	
1,800.00	1,800.00	1,807.45	1,789.43	5.37	5.01	92.89	-89.12	1,766.34	1,768.62	1,758.24	10.38	170.372	
1,900.00	1,900.00	1,901.14	1,883.11	5.53	5.12	92.87	-88.58	1,767.12	1,769.42	1,758.77	10.65	166.209	
2,000.00	2,000.00	2,001.00	1,982.97	5.68	5.24	92.84	-87.85	1,768.16	1,770.42	1,759.51	10.92	162.146	
2,100.00	2,099.98	2,106.08	2,088.05	5.96	5.39	45.49	-87.14	1,769.03	1,770.00	1,758.75	11.25	157.402	
2,200.00	2,199.84	2,205.35	2,187.31	6.52	5.53	45.63	-86.46	1,769.70	1,766.97	1,755.24	11.72	150.746	
2,300.00	2,299.45	2,300.07	2,282.02	7.05	5.67	45.87	-85.76	1,770.54	1,761.72	1,749.54	12.19	144.578	
2,400.00	2,398.83	2,394.25	2,376.18	7.19	5.85	46.09	-84.33	1,771.70	1,755.09	1,742.67	12.43	141.243	
2,500.00	2,498.20	2,483.54	2,465.39	7.38	6.10	46.22	-81.08	1,773.23	1,748.80	1,736.09	12.72	137.521	
2,600.00	2,597.57	2,567.69	2,549.40	7.60	6.37	46.29	-76.69	1,775.47	1,743.35	1,730.32	13.02	133.880	
2,700.00	2,696.93	2,651.64	2,633.08	7.82	6.69	46.31	-70.70	1,778.52	1,738.76	1,725.41	13.35	130.277	
2,800.00	2,796.30	2,729.00	2,709.98	8.07	7.08	46.27	-63.22	1,782.29	1,735.26	1,721.57	13.69	126.787	
2,900.00	2,895.67	2,808.91	2,789.14	8.32	7.52	46.15	-53.47	1,787.28	1,732.99	1,718.93	14.06	123.275	
3,000.00	2,995.04	2,882.43	2,861.69	8.59	7.87	45.99	-43.06	1,792.96	1,732.09	1,717.67	14.42	120.095	
3,006.35	3,001.35	2,887.03	2,866.23	8.61	7.89	45.98	-42.38	1,793.35	1,732.09	1,717.65	14.45	119.900	
3,100.00	3,094.40	2,954.25	2,932.33	8.87	8.19	45.80	-31.97	1,799.68	1,732.80	1,718.01	14.80	117.089	
3,200.00	3,193.77	3,028.11	3,004.65	9.16	8.50	45.57	-19.39	1,807.85	1,735.17	1,719.97	15.20	114.183	
3,300.00	3,293.14	3,115.09	3,089.56	9.46	8.81	45.26	-3.75	1,818.41	1,738.65	1,723.01	15.63	111.208	
3,400.00	3,392.51	3,552.51	3,513.42	9.76	9.69	43.10	94.32	1,834.63	1,736.49	1,719.58	16.91	102.679	
3,500.00	3,491.88	3,606.00	3,564.74	10.08	9.78	42.75	109.02	1,831.45	1,722.40	1,705.07	17.33	99.385	
3,600.00	3,591.24	3,686.59	3,642.40	10.40	9.95	42.23	130.30	1,828.07	1,710.09	1,692.23	17.86	95.768	
3,700.00	3,690.61	3,769.10	3,722.21	10.73	10.10	41.73	151.10	1,825.88	1,699.38	1,681.03	18.35	92.606	
3,800.00	3,789.98	3,864.10	3,814.21	11.06	10.27	41.16	174.71	1,823.85	1,689.37	1,670.52	18.85	89.601	
3,900.00	3,889.35	3,961.27	3,908.41	11.40	10.44	40.58	198.48	1,821.80	1,679.57	1,660.20	19.37	86.723	
4,000.00	3,988.72	4,061.14	4,005.31	11.74	10.64	40.00	222.51	1,819.72	1,669.94	1,650.04	19.90	83.931	
4,100.00	4,088.08	4,158.25	4,099.55	12.09	10.84	39.43	245.87	1,817.64	1,660.42	1,639.99	20.43	81.261	
4,200.00	4,187.45	4,250.38	4,189.09	12.44	11.05	38.89	267.50	1,815.88	1,651.29	1,630.32	20.97	78.763	
4,300.00	4,286.82	4,340.39	4,276.86	12.79	11.28	38.41	287.42	1,814.66	1,642.74	1,621.25	21.49	76.443	
4,400.00	4,386.19	4,433.61	4,368.15	13.15	11.54	37.98	306.27	1,813.96	1,634.78	1,612.77	22.01	74.262	
4,500.00	4,485.56	4,527.67	4,460.63	13.51	11.84	37.60	323.46	1,813.70	1,627.20	1,604.67	22.53	72.227	
4,600.00	4,584.92	4,629.21	4,560.87	13.88	12.17	37.27	339.59	1,813.78	1,619.83	1,596.79	23.04	70.296	
4,700.00	4,684.29	4,727.40	4,658.07	14.24	12.46	37.02	353.55	1,813.90	1,612.39	1,588.85	23.54	68.499	
4,800.00	4,783.66	4,817.73	4,747.61	14.61	12.71	36.81	365.41	1,814.42	1,605.31	1,581.29	24.01	66.847	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 501H - ST01 / 67650 - Surveys (H&P 625)												Offset Site Error:	1.00 usft
Survey Program: 250-MWD+HRGM, 3316-MWD+HRGM												Offset Well Error:	0.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.00	4,883.03	4,907.59	4,836.85	14.99	12.97	36.66	375.82	1,815.64	1,598.86	1,574.38	24.48	65.316	
5,000.00	4,982.40	5,004.55	4,933.36	15.36	13.29	36.58	384.95	1,817.61	1,592.86	1,567.91	24.94	63.865	
5,100.00	5,081.76	5,096.83	5,025.37	15.73	13.56	36.57	391.63	1,819.93	1,587.10	1,561.72	25.38	62.540	
5,200.00	5,181.13	5,190.30	5,118.65	16.11	13.79	36.63	396.59	1,822.94	1,581.83	1,556.04	25.79	61.327	
5,300.00	5,280.50	5,290.22	5,218.46	16.49	14.00	36.77	399.92	1,826.59	1,576.79	1,550.59	26.20	60.182	
5,400.00	5,379.87	5,388.55	5,316.69	16.87	14.19	36.94	402.19	1,830.28	1,571.75	1,545.15	26.60	59.088	
5,500.00	5,479.23	5,485.87	5,413.91	17.25	14.36	37.12	404.21	1,834.10	1,566.88	1,539.88	26.99	58.046	
5,600.00	5,578.60	5,591.55	5,519.49	17.64	14.55	37.33	406.12	1,838.15	1,561.91	1,534.50	27.40	56.999	
5,700.00	5,677.97	5,695.21	5,623.08	18.02	14.72	37.54	407.65	1,841.72	1,556.54	1,528.73	27.80	55.984	
5,800.00	5,777.34	5,791.94	5,719.74	18.41	14.87	37.75	408.91	1,845.15	1,551.27	1,523.07	28.20	55.011	
5,900.00	5,876.71	5,891.46	5,819.19	18.79	15.02	38.00	409.54	1,848.82	1,546.11	1,517.51	28.60	54.051	
6,000.00	5,976.07	5,997.04	5,924.66	19.18	15.12	38.37	407.10	1,852.84	1,540.89	1,511.89	29.01	53.121	
6,100.00	6,075.44	6,121.74	6,049.14	19.57	15.08	38.94	400.87	1,856.59	1,534.78	1,505.44	29.35	52.299	
6,200.00	6,174.81	6,238.95	6,166.13	19.96	14.94	39.52	393.72	1,858.26	1,527.10	1,497.51	29.59	51.611	
6,300.00	6,274.18	6,341.23	6,268.15	20.35	14.80	40.07	386.48	1,859.24	1,519.04	1,489.22	29.82	50.939	
6,400.00	6,373.55	6,458.75	6,385.21	20.74	14.66	40.79	376.15	1,859.36	1,510.20	1,480.21	29.99	50.352	
6,500.00	6,472.91	6,565.97	6,491.62	21.14	14.59	41.58	363.16	1,858.61	1,500.67	1,470.53	30.13	49.799	
6,600.00	6,572.28	6,658.74	6,583.24	21.53	14.52	42.40	348.64	1,857.78	1,491.18	1,460.90	30.27	49.259	
6,700.00	6,671.65	6,748.76	6,672.06	21.92	14.40	43.23	333.92	1,857.50	1,482.59	1,452.19	30.41	48.756	
6,800.00	6,771.02	6,843.68	6,765.80	22.32	14.27	44.09	319.03	1,857.45	1,474.63	1,444.10	30.54	48.291	
6,900.00	6,870.39	6,955.09	6,875.93	22.71	14.12	45.09	302.23	1,857.14	1,466.83	1,436.20	30.62	47.897	
7,000.00	6,969.75	7,058.23	6,977.84	23.11	13.99	46.03	286.37	1,855.76	1,458.33	1,427.60	30.72	47.465	
7,100.00	7,069.12	7,150.28	7,068.83	23.51	13.89	46.87	272.47	1,854.60	1,450.27	1,419.42	30.85	47.005	
7,200.00	7,168.49	7,269.09	7,186.35	23.90	13.77	47.95	255.15	1,852.70	1,442.24	1,411.32	30.91	46.653	
7,300.00	7,267.86	7,360.00	7,276.19	24.30	13.69	48.80	241.42	1,850.56	1,433.85	1,402.82	31.04	46.200	
7,400.00	7,367.23	7,454.00	7,369.05	24.70	13.61	49.70	226.99	1,848.56	1,426.10	1,394.96	31.14	45.790	
7,500.00	7,466.59	7,546.83	7,460.82	25.10	13.55	50.58	213.09	1,846.89	1,419.01	1,387.75	31.26	45.394	
7,600.00	7,565.96	7,643.00	7,555.91	25.50	13.50	51.50	198.79	1,845.34	1,412.49	1,381.12	31.36	45.035	
7,700.00	7,665.33	7,737.00	7,648.83	25.90	13.46	52.41	184.64	1,843.95	1,406.50	1,375.03	31.47	44.692	
7,800.00	7,764.70	7,831.00	7,741.88	26.30	13.43	53.29	171.35	1,842.87	1,401.07	1,369.48	31.58	44.359	
7,900.00	7,864.07	7,918.39	7,828.38	26.70	13.42	54.12	158.95	1,842.25	1,396.44	1,364.73	31.71	44.032	
8,000.00	7,963.43	8,009.63	7,918.53	27.10	13.41	55.02	144.90	1,841.96	1,392.82	1,361.00	31.82	43.768	
8,100.00	8,062.80	8,108.74	8,016.46	27.50	13.42	56.01	129.63	1,841.79	1,389.76	1,357.85	31.91	43.547	
8,200.00	8,162.17	8,207.81	8,114.44	27.90	13.43	56.97	115.00	1,841.59	1,386.93	1,354.92	32.01	43.326	
8,300.00	8,261.66	8,303.00	8,208.59	28.29	13.46	57.84	100.94	1,841.42	1,385.17	1,353.06	32.11	43.143	
8,325.79	8,287.37	8,327.65	8,232.97	28.40	13.46	58.05	97.31	1,841.40	1,385.10	1,352.96	32.14	43.098	
8,400.00	8,361.44	8,399.35	8,303.92	28.72	13.49	58.62	86.97	1,841.46	1,385.71	1,353.47	32.24	42.980	
8,500.00	8,461.39	8,498.35	8,401.91	29.10	13.54	59.33	72.89	1,841.69	1,388.40	1,356.03	32.37	42.892	
8,600.00	8,561.39	8,625.64	8,527.97	29.17	13.62	107.46	55.32	1,840.43	1,391.35	1,359.01	32.34	43.023	
8,700.00	8,661.39	8,729.28	8,630.75	29.21	13.69	108.00	42.11	1,838.61	1,393.58	1,361.22	32.35	43.072	
8,800.00	8,761.39	8,830.75	8,731.55	29.25	13.78	108.46	30.59	1,837.16	1,395.78	1,363.39	32.39	43.097	
8,900.00	8,861.39	8,929.21	8,829.50	29.29	13.89	108.87	20.58	1,836.00	1,397.92	1,365.48	32.45	43.086	
9,000.00	8,961.39	9,023.45	8,923.48	29.33	14.03	109.14	13.57	1,836.04	1,400.40	1,367.85	32.55	43.025	
9,100.00	9,061.39	9,123.32	9,023.16	29.37	14.14	109.36	7.61	1,836.92	1,403.20	1,370.54	32.67	42.956	
9,200.00	9,161.39	9,224.29	9,124.01	29.41	14.25	109.53	2.70	1,838.04	1,405.87	1,373.07	32.79	42.871	
9,300.00	9,261.39	9,338.69	9,238.28	29.45	14.38	109.71	-2.34	1,838.99	1,408.15	1,375.24	32.91	42.786	
9,400.00	9,361.39	9,468.83	9,368.37	29.49	14.54	109.86	-5.74	1,837.53	1,407.76	1,374.75	33.00	42.655	
9,432.96	9,394.34	9,494.81	9,394.35	29.51	14.57	109.88	-6.15	1,837.31	1,407.68	1,374.62	33.05	42.591	
9,500.00	9,461.39	9,567.78	9,467.31	29.54	14.64	109.90	-6.68	1,837.21	1,407.77	1,374.55	33.23	42.369	
9,600.00	9,561.39	9,675.12	9,574.62	29.58	14.73	109.80	-4.01	1,837.00	1,406.72	1,373.08	33.64	41.820	
9,700.00	9,661.39	9,778.03	9,677.47	29.62	14.79	109.68	-0.83	1,837.17	1,405.83	1,371.96	33.86	41.513	
9,800.00	9,761.39	9,871.49	9,770.86	29.66	14.84	109.53	2.98	1,837.47	1,404.78	1,370.78	34.00	41.317	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 501H - ST01 / 67650 - Surveys (H&P 625)												Offset Site Error:	1.00 usft
Survey Program: 250-MWD+HRGM, 3316-MWD+HRGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.00	9,861.39	10,012.76	9,912.05	29.70	14.93	109.37	7.39	1,836.45	1,403.22	1,369.12	34.11	41.141	
10,000.00	9,961.39	10,099.63	9,998.82	29.74	14.98	109.27	10.76	1,834.42	1,399.78	1,365.38	34.41	40.682	
10,100.00	10,061.39	10,177.00	10,076.16	29.79	15.10	109.33	9.63	1,832.97	1,398.36	1,363.45	34.91	40.059	
10,114.77	10,076.15	10,177.00	10,076.16	29.79	15.10	109.33	9.63	1,832.97	1,398.28	1,363.35	34.94	40.025	
10,200.00	10,161.39	10,210.46	10,109.50	29.83	15.47	109.44	6.94	1,832.69	1,399.87	1,364.25	35.62	39.297	
10,300.00	10,261.39	10,271.00	10,169.04	29.87	16.23	109.84	-3.76	1,833.35	1,406.16	1,369.48	36.68	38.336	
10,400.00	10,361.39	10,271.00	10,169.04	29.91	16.23	109.84	-3.76	1,833.35	1,416.25	1,379.31	36.94	38.342	
10,500.00	10,461.39	10,330.40	10,225.98	29.96	17.93	110.45	-20.50	1,835.43	1,430.36	1,392.66	37.70	37.943	
10,600.00	10,561.39	10,365.00	10,258.33	30.00	19.08	110.89	-32.61	1,837.29	1,448.91	1,410.52	38.40	37.737	
10,700.00	10,661.37	10,408.53	10,298.16	29.99	19.78	-67.44	-49.87	1,840.42	1,471.18	1,432.28	38.90	37.822	
10,800.00	10,760.16	10,460.00	10,344.03	29.85	20.62	-65.01	-72.66	1,845.40	1,492.38	1,452.78	39.60	37.691	
10,900.00	10,854.91	10,496.86	10,375.69	29.67	21.21	-63.25	-91.13	1,849.18	1,509.82	1,469.41	40.41	37.360	
11,000.00	10,942.73	10,554.00	10,421.83	29.48	22.12	-61.94	-124.44	1,853.91	1,522.71	1,481.29	41.42	36.761	
11,100.00	11,020.96	10,648.00	10,490.67	29.30	23.39	-61.21	-188.25	1,857.05	1,528.95	1,486.12	42.83	35.697	
11,200.00	11,087.23	10,689.46	10,518.08	29.16	23.74	-61.21	-219.35	1,857.03	1,528.76	1,485.08	43.68	34.999	
11,300.00	11,139.51	10,742.00	10,549.30	29.08	24.18	-61.80	-261.58	1,857.37	1,524.29	1,479.70	44.59	34.184	
11,400.00	11,176.22	10,742.00	10,549.30	29.08	24.18	-62.55	-261.58	1,857.37	1,515.84	1,470.48	45.36	33.418	
11,500.00	11,196.24	10,802.24	10,579.20	29.18	24.64	-64.27	-313.81	1,858.08	1,502.78	1,456.36	46.42	32.375	
11,600.00	11,200.00	10,837.00	10,593.09	29.38	24.90	-65.64	-345.66	1,858.57	1,487.40	1,440.12	47.29	31.456	
11,700.00	11,200.00	10,912.53	10,616.62	29.63	25.16	-66.47	-417.39	1,858.43	1,473.53	1,425.19	48.34	30.485	
11,800.00	11,200.00	11,023.59	10,634.62	29.92	25.31	-67.00	-526.49	1,851.26	1,460.57	1,410.67	49.90	29.269	
11,900.00	11,200.00	11,071.98	10,636.73	30.26	25.34	-66.99	-574.55	1,846.11	1,448.59	1,397.39	51.20	28.295	
12,000.00	11,200.00	11,120.00	10,638.02	30.63	25.38	-66.98	-622.42	1,842.58	1,440.20	1,387.63	52.57	27.396	
12,100.00	11,200.00	11,210.09	10,639.89	31.05	25.42	-66.96	-712.37	1,837.81	1,433.97	1,380.12	53.85	26.630	
12,200.00	11,200.00	11,306.93	10,641.42	31.52	25.48	-66.94	-809.08	1,833.01	1,428.25	1,373.05	55.20	25.874	
12,300.00	11,200.00	11,501.19	10,644.48	32.03	26.04	-66.76	-1,002.46	1,815.85	1,418.73	1,361.69	57.04	24.871	
12,400.00	11,200.00	11,561.00	10,645.57	32.59	26.56	-66.69	-1,061.92	1,809.53	1,407.77	1,349.09	58.68	23.989	
12,500.00	11,200.00	11,614.26	10,646.17	33.20	27.06	-66.65	-1,115.02	1,805.51	1,399.85	1,339.55	60.30	23.213	
12,600.00	11,200.00	11,677.24	10,646.28	33.85	27.68	-66.60	-1,177.94	1,802.80	1,395.15	1,333.17	61.98	22.511	
12,700.00	11,200.00	11,775.68	10,646.45	34.55	28.64	-66.55	-1,276.33	1,799.78	1,391.72	1,327.95	63.77	21.823	
12,800.00	11,200.00	11,844.00	10,646.68	35.30	29.31	-66.51	-1,344.61	1,797.37	1,388.29	1,322.81	65.48	21.202	
12,871.80	11,200.00	11,898.45	10,646.51	35.86	29.91	-66.48	-1,399.05	1,796.35	1,387.02	1,320.22	66.80	20.763	
12,900.00	11,200.00	11,911.93	10,646.36	36.08	30.06	-66.48	-1,412.53	1,796.44	1,387.17	1,319.89	67.28	20.618	
13,000.00	11,200.00	11,964.24	10,645.39	36.91	30.69	-66.46	-1,464.80	1,798.01	1,390.03	1,321.00	69.03	20.136	
13,100.00	11,200.00	12,033.00	10,643.84	37.78	31.58	-66.47	-1,533.39	1,802.46	1,396.12	1,325.18	70.94	19.680	
13,200.00	11,200.00	12,102.66	10,643.41	38.69	32.40	-66.55	-1,602.73	1,809.11	1,404.39	1,331.60	72.79	19.293	
13,300.00	11,200.00	12,399.65	10,656.36	39.63	35.90	-67.27	-1,898.65	1,824.92	1,408.55	1,332.59	75.96	18.544	
13,400.00	11,200.00	12,504.00	10,659.60	40.61	37.19	-67.31	-2,002.86	1,820.65	1,403.02	1,324.87	78.15	17.954	
13,500.00	11,200.00	12,593.67	10,662.08	41.62	38.25	-67.34	-2,092.44	1,817.35	1,398.01	1,317.75	80.26	17.418	
13,600.00	11,200.00	12,679.63	10,664.02	42.65	39.28	-67.37	-2,178.33	1,814.77	1,393.83	1,311.43	82.40	16.916	
13,700.00	11,200.00	12,743.86	10,664.71	43.71	40.06	-67.37	-2,242.55	1,813.64	1,391.32	1,306.84	84.47	16.471	
13,738.77	11,200.00	12,767.23	10,664.35	44.13	40.34	-67.35	-2,265.92	1,813.48	1,391.10	1,305.84	85.27	16.314	
13,800.00	11,200.00	12,815.26	10,662.75	44.80	40.94	-67.29	-2,313.92	1,813.49	1,391.53	1,304.95	86.58	16.073	
13,900.00	11,200.00	12,905.86	10,659.06	45.91	42.06	-67.14	-2,404.45	1,813.51	1,392.60	1,303.81	88.80	15.683	
14,000.00	11,200.00	12,979.51	10,655.74	47.04	42.98	-67.02	-2,478.01	1,814.64	1,395.22	1,304.31	90.91	15.347	
14,100.00	11,200.00	13,084.96	10,652.19	48.19	44.31	-66.93	-2,583.36	1,817.54	1,398.54	1,305.27	93.26	14.995	
14,200.00	11,200.00	13,189.44	10,650.44	49.36	45.64	-66.90	-2,687.77	1,820.83	1,401.55	1,305.92	95.63	14.657	
14,300.00	11,200.00	13,296.01	10,650.05	50.55	47.01	-66.93	-2,794.29	1,824.19	1,404.05	1,306.02	98.03	14.323	
14,400.00	11,200.00	13,391.28	10,650.88	51.75	48.24	-67.01	-2,889.49	1,827.57	1,406.44	1,306.07	100.37	14.012	
14,500.00	11,200.00	13,489.02	10,651.31	52.96	49.51	-67.08	-2,987.15	1,831.51	1,409.43	1,306.67	102.76	13.716	
14,600.00	11,200.00	13,605.39	10,651.69	54.19	51.03	-67.14	-3,103.46	1,835.18	1,411.67	1,306.38	105.29	13.407	
14,700.00	11,200.00	13,707.56	10,652.09	55.42	52.37	-67.18	-3,205.60	1,837.57	1,413.13	1,305.39	107.74	13.116	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 501H - ST01 / 67650 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 250-MWD+HRGM, 3316-MWD+HRGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,800.00	11,200.00	13,814.10	10,652.92	56.67	53.78	-67.25	-3,312.11	1,840.13	1,414.50	1,304.27	110.23	12.832	
14,900.00	11,200.00	13,917.69	10,653.29	57.93	55.16	-67.28	-3,415.68	1,841.91	1,415.41	1,302.69	112.72	12.557	
15,000.00	11,200.00	14,015.00	10,653.54	59.20	56.46	-67.30	-3,512.98	1,843.33	1,416.12	1,300.95	115.17	12.296	
15,100.00	11,200.00	14,110.00	10,653.84	60.48	57.73	-67.33	-3,607.96	1,845.09	1,417.17	1,299.54	117.62	12.048	
15,200.00	11,200.00	14,217.24	10,653.99	61.77	59.17	-67.36	-3,715.18	1,847.16	1,418.36	1,298.19	120.17	11.803	
15,300.00	11,200.00	14,323.41	10,656.01	63.06	60.60	-67.45	-3,821.31	1,849.01	1,418.68	1,295.94	122.74	11.559	
15,400.00	11,200.00	14,404.42	10,657.02	64.36	61.70	-67.51	-3,902.30	1,850.89	1,419.79	1,294.65	125.14	11.346	
15,500.00	11,200.00	14,494.33	10,657.60	65.67	62.92	-67.57	-3,992.16	1,853.69	1,421.88	1,294.28	127.60	11.143	
15,600.00	11,200.00	14,585.40	10,657.97	66.99	64.17	-67.63	-4,083.16	1,857.13	1,424.67	1,294.60	130.08	10.953	
15,700.00	11,200.00	14,700.80	10,657.47	68.31	65.75	-67.66	-4,198.50	1,860.87	1,427.31	1,294.56	132.75	10.752	
15,800.00	11,200.00	14,796.06	10,656.78	69.63	67.05	-67.65	-4,293.74	1,862.77	1,428.91	1,293.65	135.27	10.564	
15,900.00	11,200.00	14,880.52	10,656.06	70.96	68.23	-67.67	-4,378.12	1,866.16	1,432.31	1,294.60	137.71	10.401	
16,000.00	11,200.00	15,137.57	10,666.82	72.30	71.83	-68.04	-4,634.79	1,865.91	1,429.87	1,288.72	141.15	10.130	
16,100.00	11,200.00	15,265.44	10,672.97	73.64	73.59	-68.12	-4,762.17	1,856.79	1,420.79	1,277.08	143.72	9.886	
16,200.00	11,200.00	15,354.29	10,673.91	74.98	74.79	-68.03	-4,850.67	1,848.95	1,411.67	1,265.40	146.27	9.651	
16,300.00	11,200.00	15,446.52	10,673.10	76.33	76.04	-67.87	-4,942.53	1,840.78	1,403.23	1,254.44	148.78	9.431	
16,400.00	11,200.00	15,534.71	10,672.91	77.68	77.24	-67.74	-5,030.42	1,833.53	1,395.18	1,243.87	151.31	9.220	
16,500.00	11,200.00	15,607.00	10,672.76	79.03	78.23	-67.66	-5,102.57	1,829.05	1,388.92	1,235.06	153.86	9.027	
16,600.00	11,200.00	15,663.48	10,672.55	80.39	79.03	-67.61	-5,159.02	1,827.06	1,385.17	1,228.83	156.34	8.860	
16,700.00	11,200.00	15,731.96	10,672.49	81.76	80.00	-67.60	-5,227.49	1,826.78	1,384.19	1,225.41	158.78	8.717	
16,701.96	11,200.00	15,733.57	10,672.50	81.78	80.02	-67.60	-5,229.10	1,826.79	1,384.19	1,225.36	158.83	8.715 CC	
16,800.00	11,200.00	15,811.95	10,672.98	83.12	81.13	-67.63	-5,307.47	1,827.99	1,384.83	1,223.56	161.27	8.587	
16,900.00	11,200.00	15,890.00	10,673.04	84.49	82.23	-67.66	-5,385.47	1,830.57	1,387.26	1,223.55	163.71	8.474	
17,000.00	11,200.00	16,012.76	10,673.29	85.86	83.95	-67.73	-5,508.16	1,834.58	1,389.71	1,223.15	166.56	8.344	
17,100.00	11,200.00	16,132.27	10,673.74	87.23	85.61	-67.76	-5,627.66	1,836.24	1,390.29	1,220.96	169.33	8.210	
17,164.63	11,200.00	16,196.33	10,673.94	88.12	86.51	-67.76	-5,691.72	1,836.54	1,390.15	1,219.12	171.03	8.128	
17,200.00	11,200.00	16,224.57	10,674.07	88.61	86.90	-67.77	-5,719.96	1,836.83	1,390.24	1,218.33	171.91	8.087	
17,300.00	11,200.00	16,309.56	10,674.66	89.98	88.09	-67.81	-5,804.93	1,838.65	1,391.39	1,216.95	174.44	7.976	
17,400.00	11,200.00	16,425.65	10,675.42	91.36	89.72	-67.88	-5,920.98	1,841.47	1,392.93	1,215.69	177.23	7.859	
17,500.00	11,200.00	16,515.13	10,675.90	92.74	90.98	-67.90	-6,010.45	1,842.51	1,393.30	1,213.49	179.81	7.749	
17,600.00	11,200.00	16,608.48	10,675.81	94.13	92.30	-67.93	-6,103.77	1,844.81	1,395.06	1,212.65	182.41	7.648	
17,700.00	11,200.00	16,717.04	10,675.53	95.51	93.82	-67.94	-6,212.31	1,846.90	1,396.40	1,211.27	185.13	7.543	
17,800.00	11,200.00	16,818.69	10,675.76	96.90	95.25	-67.96	-6,313.95	1,848.64	1,397.35	1,209.55	187.80	7.441	
17,900.00	11,200.00	16,896.67	10,675.61	98.29	96.35	-67.98	-6,391.90	1,850.37	1,398.96	1,208.70	190.26	7.353	
18,000.00	11,200.00	17,003.09	10,675.28	99.68	97.85	-68.01	-6,498.26	1,853.98	1,401.71	1,208.71	193.00	7.263	
18,017.27	11,200.00	17,018.55	10,675.34	99.92	98.07	-68.02	-6,513.71	1,854.46	1,402.09	1,208.65	193.44	7.248 ES, SF	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 502H - OH / 67652 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 147-MWD+HRGM													Offset Well Error: 0.00 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	17.56	-0.44	1.41	1.00	92.09	-64.39	1,766.10	1,767.28				
100.00	100.00	115.13	97.13	1.47	1.17	92.08	-64.08	1,766.21	1,767.37	1,764.73	2.64	668.829	
200.00	200.00	215.19	197.19	1.89	1.60	92.05	-63.31	1,766.42	1,767.55	1,764.09	3.47	510.075	
300.00	300.00	316.10	298.09	2.24	2.03	92.01	-62.13	1,766.59	1,767.68	1,763.47	4.22	419.317	
400.00	400.00	411.99	393.97	2.56	2.38	91.96	-60.55	1,766.84	1,767.89	1,763.07	4.82	366.884	
500.00	500.00	515.97	497.92	2.84	2.73	91.90	-58.54	1,767.18	1,768.15	1,762.76	5.38	328.557	
600.00	600.00	622.45	604.38	3.09	3.09	91.82	-56.17	1,767.11	1,768.01	1,762.11	5.90	299.526	
700.00	700.00	719.80	701.68	3.33	3.42	91.72	-53.18	1,767.07	1,767.87	1,761.50	6.37	277.451	
800.00	800.00	823.51	805.30	3.56	3.77	91.59	-48.98	1,767.03	1,767.71	1,760.89	6.83	258.994	
894.32	894.32	912.60	894.32	3.76	4.06	91.47	-45.23	1,766.82	1,767.40	1,760.19	7.20	245.371	
900.00	900.00	917.15	898.86	3.77	4.08	91.46	-45.07	1,766.82	1,767.40	1,760.18	7.22	244.673	
1,000.00	1,000.00	998.06	979.74	3.97	4.32	91.38	-42.67	1,767.39	1,768.02	1,760.44	7.58	233.292	
1,100.00	1,100.00	1,081.05	1,062.69	4.17	4.57	91.32	-40.85	1,768.80	1,769.66	1,761.73	7.94	223.006	
1,200.00	1,200.00	1,168.97	1,150.55	4.36	4.84	91.24	-38.29	1,771.07	1,772.18	1,763.87	8.31	213.383	
1,300.00	1,300.00	1,266.45	1,247.91	4.54	5.15	91.12	-34.66	1,773.96	1,775.07	1,766.38	8.69	204.229	
1,400.00	1,400.00	1,376.44	1,357.79	4.71	5.49	90.99	-30.61	1,777.09	1,777.86	1,768.77	9.08	195.724	
1,500.00	1,500.00	1,476.52	1,457.79	4.89	5.80	90.88	-27.47	1,779.35	1,780.06	1,770.61	9.46	188.240	
1,600.00	1,600.00	1,570.43	1,551.61	5.05	6.10	90.78	-24.17	1,781.80	1,782.62	1,772.81	9.81	181.628	
1,700.00	1,700.00	1,672.33	1,653.39	5.22	6.44	90.64	-20.06	1,784.61	1,785.33	1,775.13	10.20	174.964	
1,800.00	1,800.00	1,770.11	1,751.07	5.37	6.77	90.53	-16.48	1,787.22	1,787.97	1,777.39	10.58	169.040	
1,900.00	1,900.00	1,900.41	1,881.27	5.53	7.18	90.39	-12.23	1,789.81	1,789.95	1,778.96	10.99	162.804	
2,000.00	2,000.00	2,023.54	2,004.37	5.68	7.53	90.30	-9.38	1,790.41	1,790.44	1,779.11	11.33	157.989	
2,100.00	2,099.98	2,175.56	2,156.36	5.96	7.78	42.99	-8.46	1,788.04	1,787.67	1,776.04	11.62	153.814	
2,200.00	2,199.84	2,333.60	2,314.20	6.52	7.82	43.34	-9.94	1,780.54	1,779.15	1,767.00	12.14	146.496	
2,300.00	2,299.45	2,466.47	2,446.70	7.05	7.85	43.81	-10.53	1,770.73	1,765.46	1,752.83	12.62	139.862	
2,400.00	2,398.83	2,627.98	2,607.38	7.19	7.96	44.29	-10.64	1,754.35	1,747.33	1,734.35	12.99	134.517	
2,500.00	2,498.20	2,788.77	2,766.66	7.38	8.12	44.76	-11.35	1,732.49	1,725.90	1,712.40	13.50	127.855	
2,600.00	2,597.57	2,995.48	2,969.65	7.60	8.51	45.39	-11.65	1,693.65	1,699.24	1,684.86	14.38	118.149	
2,700.00	2,696.93	3,098.09	3,069.67	7.82	8.78	45.70	-11.39	1,670.75	1,669.21	1,654.34	14.88	112.207	
2,800.00	2,796.30	3,184.81	3,154.25	8.07	9.01	45.97	-11.00	1,651.58	1,639.45	1,624.17	15.28	107.272	
2,900.00	2,895.67	3,293.84	3,260.54	8.32	9.33	46.33	-10.66	1,627.36	1,609.64	1,593.88	15.76	102.133	
3,000.00	2,995.04	3,391.16	3,355.31	8.59	9.62	46.68	-10.82	1,605.19	1,579.33	1,563.09	16.24	97.234	
3,100.00	3,094.40	3,484.10	3,445.80	8.87	9.90	47.05	-11.42	1,583.99	1,549.08	1,532.34	16.74	92.544	
3,200.00	3,193.77	3,583.85	3,542.89	9.16	10.22	47.46	-12.28	1,561.12	1,518.78	1,501.51	17.27	87.943	
3,300.00	3,293.14	3,678.42	3,634.90	9.46	10.53	47.89	-13.33	1,539.30	1,488.43	1,470.62	17.81	83.573	
3,400.00	3,392.51	3,782.83	3,736.39	9.76	10.89	48.39	-14.93	1,514.84	1,457.83	1,439.43	18.40	79.217	
3,500.00	3,491.88	3,888.10	3,838.51	10.08	11.34	48.95	-17.13	1,489.39	1,426.65	1,407.55	19.10	74.686	
3,600.00	3,591.24	3,991.78	3,938.88	10.40	11.77	49.55	-19.87	1,463.53	1,394.87	1,375.09	19.77	70.539	
3,700.00	3,690.61	4,088.47	4,032.34	10.73	12.12	50.15	-22.54	1,438.90	1,362.71	1,342.33	20.38	66.852	
3,800.00	3,789.98	4,173.66	4,114.76	11.06	12.44	50.67	-24.14	1,417.44	1,330.88	1,309.91	20.97	63.456	
3,900.00	3,889.35	4,251.32	4,190.15	11.40	12.73	51.12	-24.80	1,398.78	1,300.18	1,278.62	21.56	60.306	
4,000.00	3,988.72	4,334.00	4,270.67	11.74	13.05	51.59	-25.01	1,380.03	1,270.79	1,248.64	22.16	57.350	
4,100.00	4,088.08	4,401.29	4,336.45	12.09	13.32	51.97	-24.90	1,365.85	1,242.99	1,220.26	22.73	54.679	
4,200.00	4,187.45	4,484.42	4,418.01	12.44	13.65	52.42	-24.37	1,349.75	1,216.89	1,193.55	23.35	52.123	
4,300.00	4,286.82	4,575.57	4,507.52	12.79	14.00	52.91	-23.50	1,332.61	1,191.42	1,167.46	23.96	49.720	
4,400.00	4,386.19	4,670.06	4,600.39	13.15	14.36	53.43	-22.30	1,315.20	1,166.36	1,141.79	24.57	47.463	
4,500.00	4,485.56	4,766.56	4,695.25	13.51	14.74	53.88	-19.21	1,297.74	1,141.38	1,116.19	25.19	45.303	
4,600.00	4,584.92	4,865.55	4,792.53	13.88	15.14	54.34	-15.62	1,279.85	1,116.42	1,090.59	25.82	43.231	
4,700.00	4,684.29	4,961.55	4,886.85	14.24	15.52	54.82	-12.21	1,262.26	1,091.31	1,064.86	26.45	41.261	
4,800.00	4,783.66	5,054.73	4,978.44	14.61	15.90	55.31	-9.02	1,245.40	1,066.51	1,039.44	27.07	39.403	
4,900.00	4,883.03	5,149.91	5,072.03	14.99	16.28	55.84	-6.03	1,228.36	1,042.03	1,014.34	27.69	37.636	
5,000.00	4,982.40	5,242.63	5,163.23	15.36	16.65	56.40	-3.32	1,211.86	1,017.79	989.49	28.30	35.964	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 502H - OH / 67652 - Surveys (H&P 625)													Offset Site Error: 1.00 usft		
Survey Program: 147-MWD+HRGM		Reference		Offset		Semi Maior Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 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		
5,100.00	5,081.76	5,332.64	5,251.85	15.73	17.01	56.96	-0.85	1,196.30	994.19	965.29	28.90	34.399			
5,200.00	5,181.13	5,428.53	5,346.35	16.11	17.40	57.60	1.57	1,180.20	971.22	941.71	29.51	32.909			
5,300.00	5,280.50	5,527.45	5,443.79	16.49	17.80	58.30	3.92	1,163.29	948.13	918.00	30.13	31.472			
5,400.00	5,379.87	5,621.39	5,536.31	16.87	18.18	59.02	5.84	1,147.15	925.16	894.44	30.72	30.114			
5,500.00	5,479.23	5,713.95	5,627.55	17.25	18.55	59.76	7.52	1,131.61	902.79	871.48	31.31	28.838			
5,600.00	5,578.60	5,807.41	5,719.73	17.64	18.94	60.55	9.23	1,116.36	881.02	849.13	31.89	27.626			
5,700.00	5,677.97	5,903.32	5,814.38	18.02	19.35	61.38	11.10	1,100.93	859.62	827.12	32.49	26.457			
5,800.00	5,777.34	5,996.16	5,906.03	18.41	19.74	62.20	13.06	1,086.28	838.63	805.57	33.06	25.366			
5,900.00	5,876.71	6,091.36	6,000.09	18.79	20.12	63.08	15.02	1,071.72	818.31	784.70	33.61	24.345			
6,000.00	5,976.07	6,190.44	6,097.98	19.18	20.52	64.04	17.11	1,056.53	798.15	763.99	34.16	23.363			
6,100.00	6,075.44	6,287.33	6,193.67	19.57	20.92	65.02	19.32	1,041.53	778.01	743.31	34.70	22.423			
6,200.00	6,174.81	6,382.63	6,287.82	19.96	21.31	66.03	21.47	1,026.94	758.26	723.05	35.21	21.534			
6,300.00	6,274.18	6,476.25	6,380.37	20.35	21.69	67.06	23.65	1,012.97	739.10	703.39	35.71	20.697			
6,400.00	6,373.55	6,569.12	6,472.25	20.74	22.07	68.12	25.68	999.61	720.73	684.54	36.19	19.916			
6,500.00	6,472.91	6,661.13	6,563.38	21.14	22.44	69.20	27.68	987.05	703.30	666.66	36.64	19.193			
6,600.00	6,572.28	6,751.70	6,653.23	21.53	22.80	70.16	30.90	976.17	687.00	649.91	37.09	18.522			
6,700.00	6,671.65	6,835.68	6,736.70	21.92	23.13	70.93	35.02	967.97	672.32	634.80	37.52	17.921			
6,800.00	6,771.02	6,919.36	6,820.07	22.32	23.44	71.59	39.45	962.33	660.20	622.28	37.92	17.411			
6,900.00	6,870.39	7,001.30	6,901.82	22.71	23.73	72.18	43.80	958.74	650.31	612.04	38.28	16.990			
7,000.00	6,969.75	7,078.02	6,978.50	23.11	23.96	72.82	45.78	957.28	643.93	605.40	38.53	16.713			
7,100.00	7,069.12	7,168.15	7,068.62	23.51	24.09	73.68	46.07	956.83	640.08	601.39	38.69	16.544			
7,200.00	7,168.49	7,265.96	7,166.43	23.90	24.09	74.68	45.47	956.69	637.20	598.49	38.71	16.460			
7,300.00	7,267.86	7,363.57	7,264.03	24.30	24.04	75.71	44.56	956.67	634.80	596.12	38.68	16.411			
7,400.00	7,367.23	7,462.47	7,362.93	24.70	23.97	76.75	43.61	956.77	632.73	594.10	38.62	16.383			
7,500.00	7,466.59	7,559.87	7,460.32	25.10	23.88	77.78	42.50	957.02	631.10	592.57	38.53	16.380			
7,600.00	7,565.96	7,659.34	7,559.78	25.50	23.75	78.82	41.50	957.54	629.83	591.42	38.42	16.395			
7,700.00	7,665.33	7,759.03	7,659.47	25.90	23.61	79.85	40.76	958.11	628.65	590.36	38.30	16.416			
7,800.00	7,764.70	7,856.92	7,757.35	26.30	23.45	80.83	40.18	958.98	627.83	589.66	38.17	16.450			
7,900.00	7,864.07	7,954.88	7,855.31	26.70	23.27	81.80	39.58	960.09	627.39	589.36	38.03	16.495			
7,941.46	7,905.26	7,995.28	7,895.70	26.86	23.19	82.20	39.29	960.62	627.35	589.37	37.98	16.518			
8,000.00	7,963.43	8,053.68	7,954.10	27.10	23.09	82.78	38.85	961.41	627.39	589.49	37.91	16.551			
8,100.00	8,062.80	8,152.47	8,052.88	27.50	22.92	83.79	37.91	962.51	627.54	589.77	37.78	16.611			
8,200.00	8,162.17	8,250.67	8,151.06	27.90	22.76	84.82	36.52	963.53	628.15	590.50	37.65	16.682			
8,300.00	8,261.66	8,349.57	8,249.94	28.29	22.62	85.80	34.80	964.37	629.14	591.62	37.52	16.767			
8,400.00	8,361.44	8,450.18	8,350.53	28.72	22.50	86.50	32.91	965.14	630.55	593.12	37.43	16.846			
8,500.00	8,461.39	8,547.91	8,448.24	29.10	22.41	86.91	30.90	965.64	632.17	594.83	37.34	16.930			
8,600.00	8,561.39	8,647.75	8,548.02	29.17	22.40	134.56	27.54	965.39	634.34	597.05	37.29	17.010			
8,700.00	8,661.39	8,751.41	8,651.50	29.21	22.52	135.08	22.13	962.75	636.21	598.88	37.34	17.040			
8,800.00	8,761.39	8,863.81	8,763.72	29.25	22.70	135.64	17.16	958.78	636.89	599.43	37.46	17.002			
8,900.00	8,861.39	8,967.43	8,867.17	29.29	22.93	136.19	13.46	953.99	636.24	598.63	37.61	16.919			
9,000.00	8,961.39	9,067.97	8,967.56	29.33	23.16	136.67	10.42	949.48	635.33	597.59	37.75	16.832			
9,100.00	9,061.39	9,175.57	9,075.04	29.37	23.43	137.07	8.38	945.25	634.05	596.07	37.97	16.698			
9,200.00	9,161.39	9,290.03	9,189.41	29.41	23.75	137.24	10.09	941.21	630.52	592.17	38.36	16.438			
9,300.00	9,261.39	9,387.08	9,286.36	29.45	23.99	137.20	13.63	938.50	625.96	587.28	38.68	16.183			
9,400.00	9,361.39	9,483.54	9,382.76	29.49	24.22	137.17	16.32	936.45	622.46	583.47	38.99	15.963			
9,500.00	9,461.39	9,577.00	9,476.17	29.54	24.46	137.23	18.01	933.95	619.33	580.07	39.26	15.777			
9,600.00	9,561.39	9,668.65	9,567.78	29.58	24.69	137.46	17.44	931.13	617.70	578.25	39.44	15.660			
9,700.00	9,661.39	9,768.33	9,667.35	29.62	24.94	137.87	15.06	927.36	616.92	577.30	39.61	15.573			
9,800.00	9,761.39	9,870.01	9,768.90	29.66	25.20	138.34	12.52	922.76	615.75	575.97	39.77	15.481			
9,900.00	9,861.39	9,969.12	9,867.87	29.70	25.45	138.83	9.96	918.11	614.59	574.67	39.92	15.397			
9,983.32	9,944.70	10,046.03	9,944.70	29.74	25.61	139.14	8.17	915.29	614.05	574.07	39.97	15.361			
10,000.00	9,961.39	10,061.02	9,959.69	29.74	25.64	139.19	7.79	914.89	614.07	574.09	39.98	15.359			

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 502H - OH / 67652 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 147-MWD+HRGM													Offset Well Error: 0.00 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,100.00	10,061.39	10,155.33	10,053.94	29.79	25.78	139.46	5.24	913.15	614.92	574.92	40.00	15.372	
10,200.00	10,161.39	10,254.47	10,153.04	29.83	25.85	139.70	2.57	912.15	616.31	576.33	39.99	15.413	
10,300.00	10,261.39	10,317.51	10,215.98	29.87	25.97	139.93	-0.72	911.63	620.10	580.11	39.99	15.506	
10,400.00	10,361.39	10,363.00	10,261.05	29.91	26.08	140.28	-6.75	911.69	631.13	591.19	39.94	15.802	
10,500.00	10,461.39	10,424.82	10,321.43	29.96	26.21	140.99	-19.91	912.49	649.05	608.53	40.53	16.015	
10,600.00	10,561.39	10,477.30	10,371.53	30.00	26.28	141.76	-35.42	913.82	674.02	632.97	41.05	16.418	
10,700.00	10,661.37	10,551.00	10,439.90	29.99	26.30	-36.07	-62.76	916.52	704.91	663.14	41.77	16.874	
10,800.00	10,760.16	10,588.68	10,473.84	29.85	26.32	-34.21	-79.05	917.94	729.83	687.63	42.20	17.293	
10,900.00	10,854.91	10,645.00	10,523.21	29.67	26.35	-32.92	-106.10	919.35	746.23	703.37	42.86	17.411	
11,000.00	10,942.73	10,698.17	10,567.87	29.48	26.41	-32.38	-134.90	920.61	754.04	710.42	43.62	17.286	
11,100.00	11,020.96	10,740.00	10,601.31	29.30	26.46	-32.49	-159.96	922.08	753.97	709.58	44.39	16.985	
11,200.00	11,087.23	10,793.99	10,641.67	29.16	26.57	-33.27	-195.75	923.92	746.00	700.39	45.61	16.356	
11,300.00	11,139.51	10,835.00	10,669.76	29.08	26.67	-34.53	-225.60	924.91	730.66	683.87	46.79	15.617	
11,400.00	11,176.22	10,881.98	10,698.79	29.08	26.82	-36.52	-262.49	926.00	708.52	660.27	48.26	14.682	
11,500.00	11,196.24	10,929.00	10,724.04	29.18	27.01	-39.31	-302.11	927.39	680.59	630.82	49.77	13.674	
11,600.00	11,200.00	10,963.06	10,739.78	29.38	27.15	-41.73	-332.28	928.75	648.28	597.20	51.09	12.690	
11,700.00	11,200.00	11,023.00	10,761.87	29.63	27.42	-43.35	-387.84	932.25	622.30	569.63	52.67	11.816	
11,800.00	11,200.00	11,056.27	10,770.83	29.92	27.62	-44.06	-419.82	934.07	603.58	549.44	54.14	11.149	
11,900.00	11,200.00	11,118.00	10,780.58	30.26	28.00	-44.73	-480.70	934.70	592.41	536.35	56.06	10.567	
12,000.00	11,200.00	11,198.70	10,785.50	30.63	28.49	-44.91	-561.23	932.87	586.03	528.62	57.41	10.208	
12,100.00	11,200.00	11,295.56	10,787.93	31.05	29.01	-44.82	-658.00	929.72	581.54	523.29	58.25	9.983	
12,200.00	11,200.00	11,390.65	10,788.85	31.52	29.56	-44.59	-753.01	926.03	577.69	518.64	59.05	9.783	
12,300.00	11,200.00	11,493.69	10,790.18	32.03	30.20	-44.37	-855.98	922.31	573.83	513.94	59.89	9.582	
12,400.00	11,200.00	11,605.92	10,792.04	32.59	30.97	-44.09	-968.07	917.23	569.12	508.35	60.77	9.365	
12,500.00	11,200.00	11,702.28	10,793.80	33.20	31.71	-43.66	-1,064.16	910.23	562.39	500.59	61.80	9.100	
12,600.00	11,200.00	11,803.33	10,794.34	33.85	32.51	-43.19	-1,165.01	903.98	557.35	494.48	62.87	8.865	
12,700.00	11,200.00	11,890.72	10,795.82	34.55	33.24	-42.89	-1,252.26	899.08	551.98	487.96	64.03	8.621	
12,800.00	11,200.00	11,987.26	10,796.84	35.30	34.09	-42.78	-1,348.77	897.34	549.55	484.35	65.20	8.428	
12,900.00	11,200.00	12,085.49	10,799.02	36.08	34.95	-42.76	-1,446.96	895.55	546.30	479.89	66.41	8.227	
13,000.00	11,200.00	12,183.25	10,800.66	36.91	35.82	-42.76	-1,544.70	894.71	544.07	476.42	67.65	8.042	
13,100.00	11,200.00	12,271.14	10,802.17	37.78	36.65	-42.85	-1,632.57	894.89	542.60	473.64	68.96	7.868	
13,100.13	11,200.00	12,271.25	10,802.17	37.78	36.65	-42.85	-1,632.68	894.89	542.60	473.64	68.96	7.868	
13,200.00	11,200.00	12,364.38	10,803.83	38.69	37.57	-43.22	-1,725.71	898.68	543.64	473.29	70.36	7.727	
13,300.00	11,200.00	12,481.69	10,807.98	39.63	38.78	-43.87	-1,842.82	903.97	543.86	471.97	71.89	7.566	
13,400.00	11,200.00	12,581.74	10,810.81	40.61	39.84	-44.06	-1,942.83	904.41	541.72	468.32	73.40	7.380	
13,500.00	11,200.00	12,681.86	10,813.18	41.62	40.87	-44.22	-2,042.92	904.71	539.82	464.90	74.93	7.205	
13,600.00	11,200.00	12,782.73	10,816.09	42.65	41.93	-44.44	-2,143.74	905.34	537.79	461.28	76.51	7.029	
13,700.00	11,200.00	12,879.16	10,818.82	43.71	42.96	-44.67	-2,240.13	906.26	536.03	457.89	78.14	6.860	
13,800.00	11,200.00	12,966.00	10,820.57	44.80	43.91	-44.83	-2,326.95	907.18	535.04	455.26	79.78	6.706	
13,810.67	11,200.00	12,982.22	10,820.81	44.92	44.09	-44.86	-2,343.16	907.42	534.95	454.97	79.98	6.688	
13,900.00	11,200.00	13,061.00	10,821.28	45.91	44.99	-45.09	-2,421.88	910.50	536.57	455.05	81.51	6.582	
14,000.00	11,200.00	13,163.31	10,820.97	47.04	46.22	-45.31	-2,524.10	914.32	539.03	455.69	83.34	6.468	
14,100.00	11,200.00	13,250.00	10,820.83	48.19	47.29	-45.58	-2,610.68	918.61	542.19	457.05	85.15	6.368	
14,200.00	11,200.00	13,358.48	10,821.29	49.36	48.60	-46.07	-2,718.94	925.39	546.02	458.85	87.17	6.264	
14,300.00	11,200.00	13,471.03	10,821.11	50.55	49.99	-46.12	-2,831.47	926.95	546.62	457.54	89.08	6.136	
14,400.00	11,200.00	13,562.97	10,820.22	51.75	51.11	-46.08	-2,923.40	927.91	547.61	456.71	90.90	6.024	
14,500.00	11,200.00	13,662.24	10,818.77	52.96	52.30	-46.07	-3,022.64	929.81	549.58	456.83	92.75	5.925	
14,600.00	11,200.00	13,762.69	10,817.22	54.19	53.52	-45.98	-3,123.07	930.77	550.91	456.31	94.60	5.824	
14,700.00	11,200.00	13,857.45	10,815.79	55.42	54.68	-46.00	-3,217.79	933.09	553.29	456.80	96.49	5.734	
14,800.00	11,200.00	13,959.58	10,815.69	56.67	55.93	-46.24	-3,319.83	937.15	555.81	457.27	98.54	5.641	
14,900.00	11,200.00	14,066.10	10,816.46	57.93	57.25	-46.54	-3,426.28	941.11	557.57	456.92	100.66	5.539	
15,000.00	11,200.00	14,168.77	10,817.48	59.20	58.53	-46.75	-3,528.91	943.63	558.25	455.51	102.74	5.433	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks Fed Com - 502H - OH / 67652 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 147-MWD+HRGM													Offset Well Error: 0.00 usft
Reference	Offset	Rule Assigned:											
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
15,100.00	11,200.00	14,265.81	10,819.09	60.48	59.75	-47.05	-3,625.88	946.78	559.06	454.17	104.89	5.330	
15,200.00	11,200.00	14,366.62	10,820.06	61.77	61.03	-47.30	-3,726.65	949.88	560.23	453.19	107.04	5.234	
15,300.00	11,200.00	14,479.10	10,820.42	63.06	62.47	-47.35	-3,839.11	950.91	560.27	451.13	109.14	5.134	
15,400.00	11,200.00	14,578.57	10,820.19	64.36	63.75	-47.21	-3,938.57	949.70	559.10	448.00	111.11	5.032	
15,500.00	11,200.00	14,676.46	10,819.38	65.67	65.00	-47.00	-4,036.45	948.26	558.16	445.13	113.03	4.938	
15,600.00	11,200.00	14,774.16	10,817.96	66.99	66.27	-46.76	-4,134.13	946.80	557.63	442.70	114.93	4.852	
15,700.00	11,200.00	14,874.70	10,816.22	68.31	67.57	-46.49	-4,234.65	945.46	557.43	440.61	116.82	4.772	
15,800.00	11,200.00	14,982.26	10,815.31	69.63	68.97	-46.23	-4,342.18	943.33	556.14	437.43	118.71	4.685	
15,900.00	11,200.00	15,081.76	10,815.27	70.96	70.27	-46.04	-4,441.66	941.36	554.31	433.66	120.65	4.594	
16,000.00	11,200.00	15,186.18	10,815.75	72.30	71.64	-45.93	-4,546.07	939.95	552.62	429.97	122.65	4.506	
16,100.00	11,200.00	15,290.29	10,818.51	73.64	73.01	-45.99	-4,650.14	938.57	549.39	424.62	124.78	4.403	
16,200.00	11,200.00	15,392.18	10,820.94	74.98	74.36	-46.01	-4,751.98	936.88	546.12	419.24	126.88	4.304	
16,300.00	11,200.00	15,491.42	10,823.64	76.33	75.67	-46.04	-4,851.17	935.04	542.47	413.45	129.02	4.205	
16,400.00	11,200.00	15,588.76	10,825.69	77.68	76.97	-46.02	-4,948.46	933.22	539.24	408.11	131.13	4.112	
16,500.00	11,200.00	15,692.36	10,827.68	79.03	78.35	-45.97	-5,052.02	931.13	536.04	402.84	133.20	4.024	
16,600.00	11,200.00	15,789.46	10,830.08	80.39	79.65	-45.98	-5,149.07	929.34	532.57	397.21	135.36	3.934	
16,700.00	11,200.00	15,880.44	10,830.54	81.76	80.87	-45.83	-5,240.03	927.38	530.26	392.86	137.39	3.859	
16,800.00	11,200.00	15,981.51	10,830.12	83.12	82.23	-45.61	-5,341.08	925.56	528.83	389.50	139.33	3.796	
16,900.00	11,200.00	16,079.00	10,829.81	84.49	83.54	-45.43	-5,438.56	924.10	527.57	386.26	141.30	3.734	
16,929.06	11,200.00	16,101.95	10,829.78	84.89	83.85	-45.42	-5,461.51	924.06	527.43	385.52	141.91	3.717 CC	
17,000.00	11,200.00	16,161.23	10,829.53	85.86	84.66	-45.45	-5,520.78	925.09	528.22	384.79	143.43	3.683	
17,100.00	11,200.00	16,263.33	10,828.85	87.23	86.06	-45.59	-5,622.83	928.24	530.47	384.72	145.75	3.640	
17,200.00	11,200.00	16,364.35	10,828.23	88.61	87.43	-45.68	-5,723.82	930.64	532.18	384.17	148.01	3.596	
17,300.00	11,200.00	16,472.64	10,828.82	89.98	88.91	-45.85	-5,832.08	932.92	532.88	382.48	150.39	3.543	
17,400.00	11,200.00	16,570.44	10,830.23	91.36	90.24	-46.08	-5,929.84	935.13	533.08	380.26	152.82	3.488	
17,500.00	11,200.00	16,666.69	10,831.29	92.74	91.55	-46.33	-6,026.05	938.00	534.04	378.76	155.28	3.439	
17,600.00	11,200.00	16,769.83	10,832.48	94.13	92.97	-46.61	-6,129.14	941.06	534.98	377.17	157.80	3.390	
17,700.00	11,200.00	16,871.97	10,833.94	95.51	94.37	-46.85	-6,231.23	943.40	535.23	374.94	160.30	3.339	
17,800.00	11,200.00	16,970.39	10,835.12	96.90	95.72	-47.06	-6,329.62	945.58	535.60	372.84	162.76	3.291	
17,900.00	11,200.00	17,070.74	10,836.25	98.29	97.10	-47.28	-6,429.94	947.97	536.16	370.90	165.25	3.244	
18,000.00	11,200.00	17,173.53	10,837.22	99.68	98.51	-47.44	-6,532.71	949.74	536.35	368.65	167.69	3.198	
18,014.73	11,200.00	17,188.26	10,837.41	99.89	98.71	-47.46	-6,547.44	949.98	536.34	368.28	168.06	3.191	
18,017.27	11,200.00	17,190.00	10,837.43	99.92	98.74	-47.47	-6,549.17	950.01	536.33	368.22	168.11	3.190 ES, SF	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed 3BS 7H - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 152-MWD													Offset Well Error: 1.00 usft
Rule Assigned:													Warning
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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	
0.00	0.00	0.00	72.50	1.41	1.00	6.11	7,731.90	828.00	7,776.45				
100.00	100.00	31.22	103.72	1.47	1.02	6.11	7,731.89	827.98	7,776.10	7,773.60	2.50	3,112.482	
200.00	200.00	144.74	217.24	1.89	1.43	6.11	7,731.78	827.61	7,775.97	7,772.66	3.31	2,351.887	
300.00	300.00	284.66	357.15	2.24	1.95	6.11	7,730.95	827.02	7,775.27	7,771.10	4.17	1,863.758	
400.00	400.00	396.49	468.99	2.56	2.20	6.10	7,730.17	826.63	7,774.54	7,769.82	4.73	1,644.696	
500.00	500.00	473.00	545.49	2.84	2.37	6.10	7,729.60	826.28	7,773.77	7,768.60	5.17	1,503.721	
600.00	600.00	570.88	643.37	3.09	2.59	6.10	7,729.27	826.01	7,773.40	7,767.77	5.63	1,380.980	
700.00	700.00	705.95	778.43	3.33	2.98	6.10	7,728.10	825.50	7,772.46	7,766.21	6.25	1,243.494	
800.00	800.00	800.68	873.16	3.56	3.35	6.09	7,727.24	825.03	7,771.50	7,764.67	6.84	1,136.753	
900.00	900.00	905.38	977.85	3.77	3.68	6.09	7,726.24	824.45	7,770.49	7,763.12	7.37	1,054.786	
1,000.00	1,000.00	989.19	1,061.65	3.97	3.93	6.09	7,725.55	823.84	7,769.60	7,761.80	7.80	996.276	
1,100.00	1,100.00	1,081.17	1,153.63	4.17	4.19	6.08	7,724.95	823.05	7,768.86	7,760.63	8.23	944.345	
1,200.00	1,200.00	1,184.74	1,257.20	4.36	4.47	6.08	7,724.31	822.48	7,768.18	7,759.51	8.67	895.744	
1,300.00	1,300.00	1,302.76	1,375.21	4.54	4.79	6.07	7,723.28	821.85	7,767.25	7,758.09	9.16	848.230	
1,400.00	1,400.00	1,390.95	1,463.39	4.71	5.03	6.07	7,722.53	821.33	7,766.34	7,756.79	9.55	812.814	
1,500.00	1,500.00	1,465.18	1,537.62	4.89	5.21	6.07	7,722.04	820.92	7,765.65	7,755.76	9.89	785.580	
1,593.57	1,593.57	1,521.13	1,593.57	5.04	5.28	6.07	7,721.96	820.53	7,765.44	7,755.34	10.10	769.177	
1,600.00	1,600.00	1,525.21	1,597.65	5.05	5.29	6.07	7,721.97	820.51	7,765.44	7,755.33	10.11	768.096	
1,700.00	1,700.00	1,588.75	1,661.19	5.22	5.35	6.06	7,722.16	820.31	7,765.70	7,755.39	10.31	753.253	
1,800.00	1,800.00	1,664.77	1,737.21	5.37	5.36	6.06	7,722.72	820.21	7,766.41	7,755.94	10.47	741.705	
1,900.00	1,900.00	1,770.21	1,842.64	5.53	5.37	6.07	7,723.45	821.03	7,767.18	7,756.51	10.67	728.091	
2,000.00	2,000.00	1,864.20	1,936.62	5.68	5.37	6.08	7,724.03	822.17	7,767.93	7,757.05	10.88	714.047	
2,100.00	2,099.98	1,918.00	1,990.42	5.96	5.38	-41.31	7,724.43	822.93	7,767.60	7,756.46	11.15	696.676	
2,200.00	2,199.84	2,012.00	2,084.40	6.52	5.39	-41.35	7,725.62	824.42	7,765.10	7,753.52	11.58	670.722	
2,300.00	2,299.45	2,056.57	2,128.95	7.05	5.39	-41.43	7,726.46	825.16	7,760.48	7,748.51	11.97	648.501	
2,400.00	2,398.83	2,107.00	2,179.36	7.19	5.40	-41.47	7,727.58	825.93	7,754.55	7,742.44	12.11	640.430	
2,500.00	2,498.20	2,161.51	2,233.85	7.38	5.41	-41.49	7,729.12	826.73	7,749.16	7,736.86	12.30	630.002	
2,600.00	2,597.57	2,202.00	2,274.30	7.60	5.42	-41.51	7,730.58	827.34	7,744.50	7,732.00	12.50	619.438	
2,700.00	2,696.93	2,246.99	2,319.25	7.82	5.46	-41.53	7,732.53	828.09	7,740.58	7,727.84	12.74	607.693	
2,800.00	2,796.30	2,297.00	2,369.18	8.07	5.50	-41.56	7,735.10	829.11	7,737.43	7,724.44	12.99	595.786	
2,900.00	2,895.67	2,335.83	2,407.93	8.32	5.53	-41.57	7,737.38	829.90	7,734.98	7,721.74	13.24	584.228	
3,000.00	2,995.04	2,392.00	2,463.98	8.59	5.58	-41.60	7,741.07	830.78	7,733.22	7,719.70	13.52	572.014	
3,100.00	3,094.40	2,452.59	2,524.40	8.87	5.62	-41.63	7,745.39	831.49	7,731.99	7,718.19	13.80	560.337	
3,200.00	3,193.77	2,532.84	2,604.43	9.16	5.69	-41.68	7,751.39	832.18	7,731.13	7,717.01	14.11	547.771	
3,300.00	3,293.14	2,607.72	2,679.08	9.46	5.76	-41.72	7,757.18	832.44	7,730.48	7,716.03	14.44	535.268	
3,400.00	3,392.51	2,676.00	2,747.13	9.76	5.86	-41.76	7,762.78	833.07	7,730.32	7,715.54	14.78	523.094	
3,500.00	3,491.88	2,874.21	2,944.72	10.08	6.20	-41.87	7,778.31	834.31	7,729.96	7,714.60	15.35	503.459	
3,600.00	3,591.24	3,552.91	3,622.30	10.40	7.75	-42.44	7,803.91	810.98	7,725.66	7,708.96	16.70	462.717	
3,700.00	3,690.61	3,635.70	3,705.05	10.73	7.91	-42.51	7,803.91	808.26	7,717.05	7,700.02	17.03	453.067	
3,800.00	3,789.98	3,718.00	3,787.29	11.06	8.07	-42.57	7,804.12	805.26	7,708.70	7,691.32	17.38	443.528	
3,900.00	3,889.35	19,147.36	11,575.25	11.40	135.50	-169.23	248.93	26.16	7,687.69	7,612.67	75.02	102.476	
4,000.00	3,988.72	19,140.89	11,575.16	11.74	135.39	-168.88	255.39	26.28	7,588.36	7,513.25	75.11	101.023	
4,100.00	4,088.08	19,134.42	11,575.06	12.09	135.28	-168.53	261.86	26.40	7,489.05	7,413.83	75.21	99.571	
4,200.00	4,187.45	19,127.95	11,574.96	12.44	135.16	-168.17	268.32	26.52	7,389.75	7,314.43	75.31	98.118	
4,300.00	4,286.82	19,121.49	11,574.87	12.79	135.05	-167.81	274.78	26.64	7,290.46	7,215.04	75.42	96.666	
4,400.00	4,386.19	19,115.03	11,574.77	13.15	134.94	-167.44	281.24	26.76	7,191.18	7,115.65	75.53	95.214	
4,500.00	4,485.56	19,108.57	11,574.67	13.51	134.82	-167.08	287.70	26.88	7,091.92	7,016.28	75.64	93.763	
4,600.00	4,584.92	19,102.12	11,574.58	13.88	134.71	-166.71	294.15	27.00	6,992.68	6,916.93	75.75	92.312	
4,700.00	4,684.29	19,095.66	11,574.48	14.24	134.60	-166.34	300.60	27.13	6,893.45	6,817.58	75.87	90.862	
4,800.00	4,783.66	19,089.21	11,574.38	14.61	134.49	-165.97	307.05	27.25	6,794.23	6,718.25	75.99	89.413	
4,900.00	4,883.03	19,082.76	11,574.28	14.99	134.37	-165.59	313.50	27.38	6,695.04	6,618.93	76.11	87.965	
5,000.00	4,982.40	19,076.32	11,574.19	15.36	134.26	-165.21	319.94	27.51	6,595.86	6,519.63	76.24	86.518	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed 3BS 7H - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 152-MWD													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
5,100.00	5,081.76	19,069.89	11,574.09	15.73	134.15	-164.83	326.37	27.63	6,496.71	6,420.34	76.37	85.072	
5,200.00	5,181.13	19,063.49	11,573.99	16.11	134.04	-164.45	332.77	27.76	6,397.57	6,321.07	76.50	83.627	
5,300.00	5,280.50	19,057.10	11,573.89	16.49	133.93	-164.07	339.16	27.88	6,298.45	6,221.81	76.64	82.184	
5,400.00	5,379.87	19,050.72	11,573.80	16.87	133.82	-163.68	345.53	28.00	6,199.36	6,122.58	76.78	80.742	
5,500.00	5,479.23	19,044.36	11,573.70	17.25	133.70	-163.29	351.89	28.12	6,100.28	6,023.36	76.92	79.302	
5,600.00	5,578.60	19,038.01	11,573.60	17.64	133.59	-162.90	358.24	28.24	6,001.24	5,924.16	77.07	77.864	
5,700.00	5,677.97	19,031.67	11,573.50	18.02	133.48	-162.51	364.58	28.35	5,902.21	5,824.99	77.23	76.428	
5,800.00	5,777.34	19,025.35	11,573.41	18.41	133.37	-162.12	370.90	28.46	5,803.22	5,725.84	77.38	74.994	
5,900.00	5,876.71	19,019.04	11,573.31	18.79	133.26	-161.72	377.21	28.57	5,704.25	5,626.71	77.54	73.562	
6,000.00	5,976.07	19,012.74	11,573.21	19.18	133.15	-161.33	383.51	28.67	5,605.31	5,527.61	77.71	72.132	
6,100.00	6,075.44	19,006.45	11,573.11	19.57	133.04	-160.93	389.79	28.78	5,506.41	5,428.53	77.88	70.705	
6,200.00	6,174.81	19,000.18	11,573.02	19.96	132.93	-160.53	396.06	28.88	5,407.53	5,329.48	78.05	69.280	
6,300.00	6,274.18	18,993.92	11,572.92	20.35	132.82	-160.12	402.32	28.98	5,308.70	5,230.46	78.23	67.858	
6,400.00	6,373.55	18,987.71	11,572.85	20.74	132.75	-159.85	408.52	29.05	5,209.89	5,131.46	78.44	66.423	
6,500.00	6,472.91	18,982.00	11,572.73	21.14	132.62	-159.35	414.24	29.16	5,111.13	5,032.52	78.61	65.018	
6,600.00	6,572.28	18,974.33	11,572.61	21.53	132.48	-158.85	421.90	29.28	5,012.41	4,933.62	78.79	63.615	
6,700.00	6,671.65	18,966.72	11,572.49	21.92	132.35	-158.35	429.52	29.39	4,913.73	4,834.75	78.98	62.214	
6,800.00	6,771.02	18,959.15	11,572.37	22.32	132.22	-157.84	437.08	29.52	4,815.10	4,735.92	79.17	60.816	
6,900.00	6,870.39	18,951.63	11,572.24	22.71	132.09	-157.34	444.60	29.64	4,716.51	4,637.14	79.38	59.421	
7,000.00	6,969.75	18,944.15	11,572.12	23.11	131.96	-156.84	452.07	29.78	4,617.98	4,538.39	79.58	58.028	
7,100.00	7,069.12	18,936.73	11,571.99	23.51	131.83	-156.34	459.50	29.91	4,519.50	4,439.70	79.80	56.638	
7,200.00	7,168.49	18,929.35	11,571.86	23.90	131.70	-155.83	466.87	30.05	4,421.07	4,341.05	80.02	55.250	
7,300.00	7,267.86	18,922.01	11,571.74	24.30	131.57	-155.33	474.20	30.19	4,322.71	4,242.46	80.25	53.866	
7,400.00	7,367.23	18,914.73	11,571.61	24.70	131.44	-154.83	481.49	30.34	4,224.42	4,143.93	80.49	52.485	
7,500.00	7,466.59	18,907.49	11,571.48	25.10	131.31	-154.33	488.73	30.49	4,126.19	4,045.46	80.74	51.107	
7,600.00	7,565.96	18,900.29	11,571.35	25.50	131.19	-153.83	495.92	30.65	4,028.05	3,947.05	81.00	49.732	
7,700.00	7,665.33	18,893.14	11,571.21	25.90	131.06	-153.32	503.07	30.80	3,929.98	3,848.72	81.26	48.360	
7,800.00	7,764.70	18,886.03	11,571.08	26.30	130.94	-152.82	510.18	30.97	3,832.01	3,750.46	81.55	46.992	
7,900.00	7,864.07	18,884.00	11,571.04	26.70	130.90	-152.68	512.20	31.01	3,734.13	3,652.24	81.89	45.599	
8,000.00	7,963.43	18,884.00	11,571.04	27.10	130.90	-152.68	512.20	31.01	3,636.37	3,554.10	82.27	44.201	
8,100.00	8,062.80	18,884.00	11,571.04	27.50	130.90	-152.68	512.20	31.01	3,538.74	3,456.07	82.66	42.808	
8,200.00	8,162.17	18,884.00	11,571.04	27.90	130.90	-152.68	512.20	31.01	3,441.24	3,358.16	83.08	41.422	
8,300.00	8,261.66	18,884.00	11,571.04	28.29	130.90	-149.01	512.20	31.01	3,343.65	3,260.15	83.50	40.043	
8,400.00	8,361.44	18,884.00	11,571.04	28.72	130.90	-143.43	512.20	31.01	3,245.58	3,161.66	83.92	38.676	
8,500.00	8,461.39	18,884.00	11,571.04	29.10	130.90	-136.10	512.20	31.01	3,147.09	3,062.77	84.32	37.324	
8,600.00	8,561.39	18,884.00	11,571.04	29.17	130.90	-85.30	512.20	31.01	3,048.35	2,963.65	84.69	35.992	
8,700.00	8,661.39	18,884.00	11,571.04	29.21	130.90	-85.30	512.20	31.01	2,949.66	2,864.58	85.08	34.668	
8,800.00	8,761.39	18,884.00	11,571.04	29.25	130.90	-85.30	512.20	31.01	2,851.06	2,765.58	85.49	33.350	
8,900.00	8,861.39	18,884.00	11,571.04	29.29	130.90	-85.30	512.20	31.01	2,752.57	2,666.66	85.91	32.039	
9,000.00	8,961.39	18,884.00	11,571.04	29.33	130.90	-85.30	512.20	31.01	2,654.19	2,567.83	86.36	30.734	
9,100.00	9,061.39	18,884.00	11,571.04	29.37	130.90	-85.30	512.20	31.01	2,555.93	2,469.10	86.83	29.436	
9,200.00	9,161.39	18,884.00	11,571.04	29.41	130.90	-85.30	512.20	31.01	2,457.81	2,370.48	87.33	28.144	
9,300.00	9,261.39	18,884.00	11,571.04	29.45	130.90	-85.30	512.20	31.01	2,359.85	2,271.99	87.86	26.858	
9,400.00	9,361.39	18,884.00	11,571.04	29.49	130.90	-85.30	512.20	31.01	2,262.07	2,173.64	88.43	25.580	
9,500.00	9,461.39	18,884.00	11,571.04	29.54	130.90	-85.30	512.20	31.01	2,164.50	2,075.45	89.04	24.308	
9,600.00	9,561.39	18,884.00	11,571.04	29.58	130.90	-85.30	512.20	31.01	2,067.15	1,977.45	89.71	23.043	
9,700.00	9,661.39	18,884.00	11,571.04	29.62	130.90	-85.30	512.20	31.01	1,970.07	1,879.64	90.43	21.786	
9,800.00	9,761.39	18,884.00	11,571.04	29.66	130.90	-85.30	512.20	31.01	1,873.30	1,782.08	91.22	20.535	
9,900.00	9,861.39	18,884.00	11,571.04	29.70	130.90	-85.30	512.20	31.01	1,776.89	1,684.79	92.10	19.293	
10,000.00	9,961.39	18,884.00	11,571.04	29.74	130.90	-85.30	512.20	31.01	1,680.89	1,587.81	93.08	18.058	
10,100.00	10,061.39	18,884.00	11,571.04	29.79	130.90	-85.30	512.20	31.01	1,585.39	1,491.20	94.19	16.832	
10,200.00	10,161.39	18,886.05	11,571.08	29.83	130.94	-85.54	510.15	30.96	1,490.48	1,395.01	95.47	15.612	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed 3BS 7H - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 152-MWD													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
10,300.00	10,261.39	18,888.11	11,571.12	29.87	130.98	-85.79	508.10	30.92	1,396.28	1,299.33	96.95	14.403	
10,400.00	10,361.39	18,890.15	11,571.16	29.91	131.01	-86.03	506.06	30.87	1,302.93	1,204.28	98.65	13.207	
10,500.00	10,461.39	18,892.17	11,571.20	29.96	131.05	-86.27	504.03	30.83	1,210.65	1,110.00	100.66	12.028	
10,600.00	10,561.39	18,894.18	11,571.23	30.00	131.08	-86.51	502.02	30.78	1,119.69	1,016.67	103.02	10.868	
10,700.00	10,661.37	18,897.29	11,571.29	29.99	131.14	99.95	498.92	30.71	1,030.45	924.59	105.86	9.734	
10,800.00	10,760.16	18,914.98	11,571.61	29.85	131.45	113.99	481.24	30.34	944.78	835.35	109.43	8.634	
10,900.00	10,854.91	18,950.60	11,572.22	29.67	132.07	122.35	445.63	29.66	865.66	751.86	113.79	7.607	
11,000.00	10,942.73	19,000.91	11,573.03	29.48	132.95	126.91	395.33	28.87	795.63	676.81	118.82	6.696	
11,100.00	11,020.96	19,062.76	11,573.98	29.30	134.03	129.09	333.50	27.77	736.89	612.62	124.27	5.930	
11,200.00	11,087.23	19,139.12	11,575.13	29.16	135.36	129.54	257.16	26.31	690.67	560.82	129.85	5.319	
11,300.00	11,139.51	19,228.89	11,576.84	29.08	136.92	129.06	167.42	25.36	656.91	521.86	135.05	4.864	
11,400.00	11,176.22	19,300.00	11,578.53	29.08	138.15	128.91	96.32	25.19	635.46	496.47	138.99	4.572	
11,447.18	11,187.79	19,300.00	11,578.53	29.13	138.15	129.14	96.32	25.19	632.48	493.04	139.44	4.536 CC, ES, SF	
11,500.00	11,196.24	19,300.00	11,578.53	29.18	138.15	128.85	96.32	25.19	636.21	497.36	138.85	4.582	
11,600.00	11,200.00	19,300.00	11,578.53	29.38	138.15	127.66	96.32	25.19	662.31	527.42	134.89	4.910	
11,700.00	11,200.00	19,300.00	11,578.53	29.63	138.15	127.66	96.32	25.19	703.88	574.88	129.00	5.457	
11,800.00	11,200.00	19,300.00	11,578.53	29.92	138.15	127.66	96.32	25.19	756.46	634.04	122.42	6.179	
11,900.00	11,200.00	19,300.00	11,578.53	30.26	138.15	127.66	96.32	25.19	817.94	702.11	115.83	7.062	
12,000.00	11,200.00	19,300.00	11,578.53	30.63	138.15	127.66	96.32	25.19	886.46	776.85	109.61	8.087	
12,100.00	11,200.00	19,300.00	11,578.53	31.05	138.15	127.66	96.32	25.19	960.53	856.56	103.97	9.239	
12,200.00	11,200.00	19,300.00	11,578.53	31.52	138.15	127.66	96.32	25.19	1,038.94	940.01	98.93	10.502	
12,300.00	11,200.00	19,300.00	11,578.53	32.03	138.15	127.66	96.32	25.19	1,120.80	1,026.31	94.49	11.862	
12,400.00	11,200.00	19,300.00	11,578.53	32.59	138.15	127.66	96.32	25.19	1,205.40	1,114.81	90.58	13.307	
12,500.00	11,200.00	19,300.00	11,578.53	33.20	138.15	127.66	96.32	25.19	1,292.20	1,205.04	87.16	14.826	
12,600.00	11,200.00	19,300.00	11,578.53	33.85	138.15	127.66	96.32	25.19	1,380.78	1,296.64	84.15	16.409	
12,700.00	11,200.00	19,300.00	11,578.53	34.55	138.15	127.66	96.32	25.19	1,470.83	1,389.34	81.49	18.049	
12,800.00	11,200.00	19,300.00	11,578.53	35.30	138.15	127.66	96.32	25.19	1,562.10	1,482.95	79.14	19.737	
12,900.00	11,200.00	19,300.00	11,578.53	36.08	138.15	127.66	96.32	25.19	1,654.37	1,577.30	77.06	21.468	
13,000.00	11,200.00	19,300.00	11,578.53	36.91	138.15	127.66	96.32	25.19	1,747.49	1,672.28	75.21	23.234	
13,100.00	11,200.00	19,300.00	11,578.53	37.78	138.15	127.66	96.32	25.19	1,841.34	1,767.78	73.56	25.033	
13,200.00	11,200.00	19,300.00	11,578.53	38.69	138.15	127.66	96.32	25.19	1,935.80	1,863.72	72.07	26.859	
13,300.00	11,200.00	19,300.00	11,578.53	39.63	138.15	127.66	96.32	25.19	2,030.79	1,960.05	70.74	28.707	
13,400.00	11,200.00	19,300.00	11,578.53	40.61	138.15	127.66	96.32	25.19	2,126.24	2,056.70	69.54	30.576	
13,500.00	11,200.00	19,300.00	11,578.53	41.62	138.15	127.66	96.32	25.19	2,222.09	2,153.64	68.45	32.462	
13,600.00	11,200.00	19,300.00	11,578.53	42.65	138.15	127.66	96.32	25.19	2,318.29	2,250.82	67.47	34.362	
13,700.00	11,200.00	19,300.00	11,578.53	43.71	138.15	127.66	96.32	25.19	2,414.80	2,348.23	66.57	36.274	
13,800.00	11,200.00	19,300.00	11,578.53	44.80	138.15	127.66	96.32	25.19	2,511.58	2,445.83	65.75	38.196	
13,900.00	11,200.00	19,300.00	11,578.53	45.91	138.15	127.66	96.32	25.19	2,608.61	2,543.60	65.01	40.126	
14,000.00	11,200.00	19,300.00	11,578.53	47.04	138.15	127.66	96.32	25.19	2,705.85	2,641.52	64.33	42.063	
14,100.00	11,200.00	19,300.00	11,578.53	48.19	138.15	127.66	96.32	25.19	2,803.29	2,739.58	63.71	44.004	
14,200.00	11,200.00	19,300.00	11,578.53	49.36	138.15	127.66	96.32	25.19	2,900.90	2,837.77	63.13	45.949	
14,300.00	11,200.00	19,300.00	11,578.53	50.55	138.15	127.66	96.32	25.19	2,998.67	2,936.06	62.61	47.896	
14,400.00	11,200.00	19,300.00	11,578.53	51.75	138.15	127.66	96.32	25.19	3,096.58	3,034.45	62.13	49.844	
14,500.00	11,200.00	19,300.00	11,578.53	52.96	138.15	127.66	96.32	25.19	3,194.62	3,132.94	61.68	51.792	
14,600.00	11,200.00	19,300.00	11,578.53	54.19	138.15	127.66	96.32	25.19	3,292.78	3,231.50	61.27	53.740	
14,700.00	11,200.00	19,300.00	11,578.53	55.42	138.15	127.66	96.32	25.19	3,391.04	3,330.15	60.90	55.687	
14,800.00	11,200.00	19,300.00	11,578.53	56.67	138.15	127.66	96.32	25.19	3,489.41	3,428.86	60.55	57.631	
14,900.00	11,200.00	19,300.00	11,578.53	57.93	138.15	127.66	96.32	25.19	3,587.86	3,527.63	60.23	59.572	
15,000.00	11,200.00	19,300.00	11,578.53	59.20	138.15	127.66	96.32	25.19	3,686.40	3,626.47	59.93	61.511	
15,100.00	11,200.00	19,300.00	11,578.53	60.48	138.15	127.66	96.32	25.19	3,785.01	3,725.36	59.66	63.445	
15,200.00	11,200.00	19,300.00	11,578.53	61.77	138.15	127.66	96.32	25.19	3,883.70	3,824.29	59.41	65.374	
15,300.00	11,200.00	19,300.00	11,578.53	63.06	138.15	127.66	96.32	25.19	3,982.45	3,923.28	59.18	67.299	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed 3BS 7H - OH - Surveys												Offset Site Error:	0.00 usft
Survey Program: 152-MWD												Offset Well Error:	1.00 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,400.00	11,200.00	19,300.00	11,578.53	64.36	138.15	127.66	96.32	25.19	4,081.26	4,022.30	58.96	69.218	
15,500.00	11,200.00	19,300.00	11,578.53	65.67	138.15	127.66	96.32	25.19	4,180.13	4,121.36	58.77	71.132	
15,600.00	11,200.00	19,300.00	11,578.53	66.99	138.15	127.66	96.32	25.19	4,279.05	4,220.47	58.59	73.039	
15,700.00	11,200.00	19,300.00	11,578.53	68.31	138.15	127.66	96.32	25.19	4,378.02	4,319.60	58.42	74.940	
15,800.00	11,200.00	19,300.00	11,578.53	69.63	138.15	127.66	96.32	25.19	4,477.04	4,418.77	58.27	76.835	
15,900.00	11,200.00	19,300.00	11,578.53	70.96	138.15	127.66	96.32	25.19	4,576.10	4,517.97	58.13	78.722	
16,000.00	11,200.00	19,300.00	11,578.53	72.30	138.15	127.66	96.32	25.19	4,675.19	4,617.19	58.00	80.602	
16,100.00	11,200.00	19,300.00	11,578.53	73.64	138.15	127.66	96.32	25.19	4,774.33	4,716.44	57.89	82.474	
16,200.00	11,200.00	19,300.00	11,578.53	74.98	138.15	127.66	96.32	25.19	4,873.50	4,815.72	57.78	84.339	
16,300.00	11,200.00	19,300.00	11,578.53	76.33	138.15	127.66	96.32	25.19	4,972.71	4,915.02	57.69	86.195	
16,400.00	11,200.00	19,300.00	11,578.53	77.68	138.15	127.66	96.32	25.19	5,071.94	5,014.34	57.61	88.044	
16,500.00	11,200.00	19,300.00	11,578.53	79.03	138.15	127.66	96.32	25.19	5,171.21	5,113.68	57.53	89.884	
16,600.00	11,200.00	19,300.00	11,578.53	80.39	138.15	127.66	96.32	25.19	5,270.50	5,213.04	57.47	91.716	
16,700.00	11,200.00	19,300.00	11,578.53	81.76	138.15	127.66	96.32	25.19	5,369.82	5,312.41	57.41	93.539	
16,800.00	11,200.00	19,300.00	11,578.53	83.12	138.15	127.66	96.32	25.19	5,469.17	5,411.81	57.36	95.353	
16,900.00	11,200.00	19,300.00	11,578.53	84.49	138.15	127.66	96.32	25.19	5,568.53	5,511.22	57.31	97.159	
17,000.00	11,200.00	19,300.00	11,578.53	85.86	138.15	127.66	96.32	25.19	5,667.92	5,610.65	57.28	98.955	
17,100.00	11,200.00	19,300.00	11,578.53	87.23	138.15	127.66	96.32	25.19	5,767.33	5,710.09	57.25	100.742	
17,200.00	11,200.00	19,300.00	11,578.53	88.61	138.15	127.66	96.32	25.19	5,866.77	5,809.54	57.23	102.520	
17,300.00	11,200.00	19,300.00	11,578.53	89.98	138.15	127.66	96.32	25.19	5,966.22	5,909.01	57.21	104.289	
17,400.00	11,200.00	19,300.00	11,578.53	91.36	138.15	127.66	96.32	25.19	6,065.68	6,008.49	57.20	106.048	
17,500.00	11,200.00	19,300.00	11,578.53	92.74	138.15	127.66	96.32	25.19	6,165.17	6,107.98	57.19	107.798	
17,600.00	11,200.00	19,300.00	11,578.53	94.13	138.15	127.66	96.32	25.19	6,264.67	6,207.48	57.19	109.538	
17,700.00	11,200.00	19,300.00	11,578.53	95.51	138.15	127.66	96.32	25.19	6,364.19	6,306.99	57.20	111.269	
17,800.00	11,200.00	19,300.00	11,578.53	96.90	138.15	127.66	96.32	25.19	6,463.72	6,406.51	57.21	112.990	
17,900.00	11,200.00	19,300.00	11,578.53	98.29	138.15	127.66	96.32	25.19	6,563.27	6,506.05	57.22	114.701	
18,000.00	11,200.00	19,300.00	11,578.53	99.68	138.15	127.66	96.32	25.19	6,662.83	6,605.59	57.24	116.402	
18,017.27	11,200.00	19,300.00	11,578.53	99.92	138.15	127.66	96.32	25.19	6,680.02	6,622.78	57.24	116.695	



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com 2BS 11H - OH - Surveys													Offset Site Error:	0.00 usft	
Survey Program:		179-MWD		Offset		Semi Maior Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 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		
0.00	0.00	0.00	77.50	1.41	1.00	5.67	7,731.50	768.00	7,769.94						
100.00	100.00	19.14	96.64	1.47	1.01	5.67	7,731.50	768.00	7,769.56	7,767.07	2.49	3,126.127			
200.00	200.00	104.20	181.70	1.89	1.27	5.67	7,731.63	767.95	7,769.69	7,766.54	3.16	2,459.668			
300.00	300.00	208.02	285.52	2.24	1.82	5.67	7,731.97	767.79	7,770.01	7,765.95	4.07	1,911.167			
400.00	400.00	379.56	457.06	2.56	2.68	5.67	7,731.37	766.93	7,769.52	7,764.30	5.22	1,487.628			
500.00	500.00	492.74	570.23	2.84	3.18	5.66	7,730.50	766.64	7,768.74	7,762.74	6.00	1,295.235			
600.00	600.00	631.60	709.08	3.09	3.72	5.66	7,728.89	766.17	7,767.54	7,760.75	6.80	1,143.008			
700.00	700.00	751.12	828.59	3.33	4.35	5.66	7,727.11	765.64	7,766.01	7,758.35	7.66	1,014.080			
800.00	800.00	996.83	1,074.21	3.56	5.65	5.66	7,721.01	764.59	7,763.62	7,754.44	9.18	846.060			
900.00	900.00	1,024.77	1,102.14	3.77	5.74	5.66	7,720.30	764.55	7,760.70	7,751.21	9.49	818.011			
1,000.00	1,000.00	1,074.12	1,151.49	3.97	5.95	5.66	7,719.18	764.54	7,758.42	7,748.52	9.91	783.217			
1,100.00	1,100.00	1,160.00	1,237.35	4.17	6.32	5.66	7,717.96	764.78	7,756.97	7,746.50	10.47	740.533			
1,200.00	1,200.00	1,191.13	1,268.48	4.36	6.44	5.66	7,717.67	764.93	7,755.79	7,745.00	10.79	718.946			
1,300.00	1,300.00	1,310.58	1,387.92	4.54	6.91	5.66	7,716.42	765.41	7,754.78	7,743.34	11.45	677.355			
1,400.00	1,400.00	1,413.52	1,490.85	4.71	7.26	5.67	7,715.16	765.68	7,753.60	7,741.63	11.97	647.846			
1,500.00	1,500.00	1,510.63	1,587.96	4.89	7.53	5.67	7,714.05	765.66	7,752.45	7,740.04	12.42	624.355			
1,600.00	1,600.00	1,622.05	1,699.37	5.05	7.80	5.67	7,712.69	765.74	7,751.25	7,738.40	12.85	603.272			
1,700.00	1,700.00	1,686.50	1,763.82	5.22	8.09	5.67	7,711.95	766.20	7,750.18	7,736.88	13.30	582.512			
1,800.00	1,800.00	1,749.22	1,826.52	5.37	8.38	5.68	7,711.48	767.29	7,749.60	7,735.84	13.76	563.272			
1,893.23	1,893.23	1,816.00	1,893.28	5.52	8.70	5.70	7,711.23	769.14	7,749.50	7,735.28	14.22	545.087			
1,900.00	1,900.00	1,816.00	1,893.28	5.53	8.70	5.70	7,711.23	769.14	7,749.50	7,735.27	14.23	544.687			
2,000.00	2,000.00	1,872.29	1,949.54	5.68	8.81	5.71	7,711.30	770.80	7,749.89	7,735.40	14.49	534.845			
2,100.00	2,099.98	1,911.00	1,988.24	5.96	8.89	-41.67	7,711.53	771.72	7,749.55	7,734.75	14.80	523.599			
2,200.00	2,199.84	1,974.36	2,051.58	6.52	8.89	-41.71	7,712.35	772.71	7,747.17	7,731.99	15.18	510.373			
2,300.00	2,299.45	2,065.24	2,142.44	7.05	8.89	-41.81	7,714.32	772.98	7,742.82	7,727.28	15.55	498.079			
2,400.00	2,398.83	2,170.45	2,247.63	7.19	8.89	-41.90	7,716.42	771.96	7,736.39	7,720.72	15.67	493.723			
2,500.00	2,498.20	2,228.54	2,305.70	7.38	8.89	-41.94	7,717.76	771.02	7,730.19	7,714.34	15.84	487.943			
2,600.00	2,597.57	2,291.00	2,368.12	7.60	8.90	-41.98	7,719.69	770.21	7,724.69	7,708.65	16.03	481.834			
2,700.00	2,696.93	2,536.19	2,613.21	7.82	8.98	-42.15	7,724.80	766.46	7,718.12	7,701.81	16.32	473.060			
2,800.00	2,796.30	2,595.05	2,672.06	8.07	9.01	-42.18	7,725.67	766.23	7,711.17	7,694.63	16.54	466.118			
2,900.00	2,895.67	2,669.00	2,746.00	8.32	9.03	-42.22	7,726.86	766.64	7,704.52	7,687.74	16.78	459.219			
3,000.00	2,995.04	2,723.63	2,800.62	8.59	9.06	-42.25	7,727.93	767.50	7,698.35	7,681.32	17.03	452.051			
3,100.00	3,094.40	2,764.00	2,840.96	8.87	9.08	-42.26	7,728.99	768.48	7,692.89	7,675.61	17.28	445.186			
3,200.00	3,193.77	18,226.18	10,797.53	9.16	129.32	-172.88	144.53	-4.44	7,604.58	7,533.31	71.26	106.711			
3,300.00	3,293.14	18,219.39	10,797.47	9.46	129.22	-172.52	151.33	-4.40	7,505.26	7,433.92	71.34	105.209			
3,400.00	3,392.51	18,212.59	10,797.42	9.76	129.11	-172.16	158.13	-4.37	7,405.95	7,334.54	71.41	103.707			
3,500.00	3,491.88	18,205.79	10,797.36	10.08	129.00	-171.79	164.93	-4.33	7,306.66	7,235.17	71.49	102.203			
3,600.00	3,591.24	18,198.99	10,797.30	10.40	128.89	-171.42	171.72	-4.29	7,207.38	7,135.80	71.57	100.699			
3,700.00	3,690.61	18,192.19	10,797.24	10.73	128.78	-171.05	178.52	-4.25	7,108.11	7,036.45	71.66	99.194			
3,800.00	3,789.98	18,185.39	10,797.18	11.06	128.67	-170.67	185.32	-4.21	7,008.86	6,937.11	71.75	97.688			
3,900.00	3,889.35	18,178.59	10,797.13	11.40	128.56	-170.30	192.12	-4.17	6,909.62	6,837.78	71.84	96.183			
4,000.00	3,988.72	18,173.00	10,797.08	11.74	128.47	-169.98	197.71	-4.14	6,810.40	6,738.45	71.94	94.664			
4,100.00	4,088.08	18,173.00	10,797.08	12.09	128.47	-169.98	197.71	-4.14	6,711.19	6,639.10	72.09	93.088			
4,200.00	4,187.45	18,163.35	10,797.00	12.44	128.32	-169.43	207.36	-4.08	6,612.01	6,539.83	72.17	91.613			
4,300.00	4,286.82	18,158.84	10,796.97	12.79	128.25	-169.18	211.87	-4.05	6,512.84	6,440.54	72.30	90.086			
4,400.00	4,386.19	18,154.27	10,796.93	13.15	128.18	-168.91	216.44	-4.01	6,413.70	6,341.27	72.42	88.560			
4,500.00	4,485.56	18,149.64	10,796.90	13.51	128.10	-168.65	221.07	-3.97	6,314.57	6,242.02	72.55	87.037			
4,600.00	4,584.92	18,144.96	10,796.87	13.88	128.03	-168.37	225.75	-3.93	6,215.47	6,142.79	72.68	85.516			
4,700.00	4,684.29	18,140.22	10,796.84	14.24	127.95	-168.10	230.49	-3.89	6,116.40	6,043.58	72.82	83.997			
4,800.00	4,783.66	18,105.94	10,796.57	14.61	127.40	-166.05	264.76	-3.41	6,017.33	5,944.62	72.71	82.753			
4,900.00	4,883.03	18,099.20	10,796.50	14.99	127.30	-165.64	271.51	-3.30	5,918.27	5,845.43	72.84	81.251			
5,000.00	4,982.40	18,128.19	10,796.78	15.36	127.76	-167.39	242.52	-3.77	5,819.32	5,746.06	73.26	79.432			

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com 2BS 11H - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 179-MWD													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
5,100.00	5,081.76	18,104.38	10,796.65	15.73	127.38	-165.95	266.33	-3.49	5,720.35	5,647.09	73.25	78.088	
5,200.00	5,181.13	18,082.14	10,796.46	16.11	127.02	-164.58	288.57	-3.15	5,621.38	5,548.11	73.26	76.728	
5,300.00	5,280.50	18,061.31	10,796.24	16.49	126.69	-163.26	309.39	-2.78	5,522.42	5,449.13	73.29	75.353	
5,400.00	5,379.87	18,041.78	10,795.99	16.87	126.38	-162.00	328.91	-2.37	5,423.47	5,350.15	73.32	73.965	
5,500.00	5,479.23	18,027.67	10,795.77	17.25	126.15	-161.07	343.01	-2.05	5,324.54	5,251.13	73.41	72.530	
5,600.00	5,578.60	18,021.30	10,795.68	17.64	126.05	-160.65	349.38	-1.90	5,225.65	5,152.08	73.57	71.033	
5,700.00	5,677.97	18,014.93	10,795.58	18.02	125.94	-160.22	355.76	-1.74	5,126.78	5,053.06	73.73	69.537	
5,800.00	5,777.34	18,008.54	10,795.48	18.41	125.84	-159.79	362.14	-1.59	5,027.96	4,954.06	73.89	68.045	
5,900.00	5,876.71	18,002.15	10,795.38	18.79	125.73	-159.36	368.52	-1.43	4,929.17	4,855.11	74.06	66.554	
6,000.00	5,976.07	17,995.76	10,795.28	19.18	125.63	-158.92	374.92	-1.26	4,830.42	4,756.19	74.24	65.067	
6,100.00	6,075.44	17,989.35	10,795.18	19.57	125.52	-158.48	381.32	-1.10	4,731.72	4,657.31	74.42	63.583	
6,200.00	6,174.81	17,982.94	10,795.08	19.96	125.42	-158.04	387.73	-0.93	4,633.07	4,558.46	74.61	62.101	
6,300.00	6,274.18	17,976.52	10,794.98	20.35	125.31	-157.59	394.14	-0.75	4,534.47	4,459.67	74.80	60.622	
6,400.00	6,373.55	17,970.10	10,794.88	20.74	125.21	-157.14	400.56	-0.58	4,435.92	4,360.92	75.00	59.147	
6,500.00	6,472.91	17,963.67	10,794.78	21.14	125.10	-156.69	406.99	-0.40	4,337.42	4,262.22	75.20	57.675	
6,600.00	6,572.28	17,957.23	10,794.68	21.53	125.00	-156.23	413.43	-0.22	4,238.99	4,163.57	75.42	56.206	
6,700.00	6,671.65	17,950.78	10,794.58	21.92	124.89	-155.77	419.87	-0.04	4,140.62	4,064.98	75.64	54.740	
6,800.00	6,771.02	17,944.33	10,794.48	22.32	124.78	-155.31	426.32	0.15	4,042.33	3,966.46	75.87	53.278	
6,900.00	6,870.39	17,937.87	10,794.38	22.71	124.68	-154.85	432.77	0.34	3,944.11	3,867.99	76.11	51.820	
7,000.00	6,969.75	17,931.41	10,794.28	23.11	124.57	-154.38	439.24	0.53	3,845.97	3,769.60	76.36	50.365	
7,100.00	7,069.12	17,924.93	10,794.18	23.51	124.46	-153.91	445.71	0.73	3,747.91	3,671.29	76.62	48.914	
7,200.00	7,168.49	17,918.45	10,794.08	23.90	124.36	-153.43	452.18	0.93	3,649.95	3,573.06	76.90	47.466	
7,300.00	7,267.86	17,911.97	10,793.98	24.30	124.25	-152.96	458.67	1.13	3,552.10	3,474.92	77.18	46.022	
7,400.00	7,367.23	17,905.47	10,793.88	24.70	124.14	-152.48	465.16	1.33	3,454.35	3,376.87	77.48	44.582	
7,500.00	7,466.59	17,898.97	10,793.78	25.10	124.04	-151.99	471.65	1.54	3,356.73	3,278.93	77.80	43.146	
7,600.00	7,565.96	17,892.46	10,793.67	25.50	123.93	-151.51	478.16	1.75	3,259.24	3,181.10	78.13	41.714	
7,700.00	7,665.33	17,885.95	10,793.57	25.90	123.82	-151.02	484.67	1.96	3,161.89	3,083.40	78.49	40.286	
7,800.00	7,764.70	17,879.43	10,793.47	26.30	123.72	-150.53	491.18	2.18	3,064.69	2,985.83	78.86	38.862	
7,900.00	7,864.07	17,872.90	10,793.37	26.70	123.61	-150.03	497.71	2.40	2,967.67	2,888.41	79.26	37.441	
8,000.00	7,963.43	17,866.36	10,793.27	27.10	123.50	-149.54	504.24	2.62	2,870.84	2,791.16	79.69	36.026	
8,100.00	8,062.80	17,859.82	10,793.17	27.50	123.39	-149.04	510.78	2.84	2,774.23	2,694.08	80.15	34.614	
8,200.00	8,162.17	17,853.27	10,793.07	27.90	123.29	-148.53	517.32	3.07	2,677.84	2,597.20	80.64	33.207	
8,300.00	8,261.66	17,847.60	10,792.98	28.29	123.19	-148.02	522.99	3.27	2,581.43	2,500.26	81.17	31.802	
8,400.00	8,361.44	17,844.42	10,792.93	28.72	123.14	-139.64	526.17	3.38	2,484.55	2,402.82	81.73	30.399	
8,500.00	8,461.39	17,843.78	10,792.92	29.10	123.13	-133.82	526.81	3.41	2,387.26	2,304.95	82.31	29.002	
8,600.00	8,561.39	17,845.19	10,792.94	29.17	123.15	-84.09	525.39	3.36	2,289.74	2,206.84	82.90	27.620	
8,700.00	8,661.39	17,846.80	10,792.96	29.21	123.18	-84.27	523.79	3.30	2,192.39	2,108.86	83.53	26.247	
8,800.00	8,761.39	17,848.41	10,792.99	29.25	123.21	-84.44	522.18	3.24	2,095.30	2,011.09	84.21	24.881	
8,900.00	8,861.39	17,850.01	10,793.01	29.29	123.23	-84.62	520.58	3.19	1,998.49	1,913.53	84.95	23.524	
9,000.00	8,961.39	17,851.62	10,793.04	29.33	123.26	-84.80	518.97	3.13	1,902.00	1,816.23	85.77	22.175	
9,100.00	9,061.39	17,853.23	10,793.06	29.37	123.29	-84.98	517.36	3.07	1,805.90	1,719.23	86.67	20.836	
9,200.00	9,161.39	17,854.83	10,793.09	29.41	123.31	-85.16	515.76	3.02	1,710.25	1,622.57	87.68	19.505	
9,300.00	9,261.39	17,856.44	10,793.11	29.45	123.34	-85.34	514.15	2.96	1,615.12	1,526.31	88.81	18.186	
9,400.00	9,361.39	17,858.05	10,793.14	29.49	123.37	-85.52	512.55	2.90	1,520.61	1,430.51	90.10	16.877	
9,500.00	9,461.39	17,859.65	10,793.16	29.54	123.39	-85.70	510.94	2.85	1,426.85	1,335.28	91.57	15.583	
9,600.00	9,561.39	17,861.26	10,793.19	29.58	123.42	-85.88	509.34	2.79	1,334.00	1,240.73	93.27	14.303	
9,700.00	9,661.39	17,862.87	10,793.21	29.62	123.44	-86.06	507.73	2.74	1,242.25	1,147.00	95.25	13.042	
9,800.00	9,761.39	17,864.47	10,793.24	29.66	123.47	-86.24	506.13	2.68	1,151.88	1,054.29	97.58	11.804	
9,900.00	9,861.39	17,866.08	10,793.26	29.70	123.50	-86.42	504.52	2.63	1,063.22	962.87	100.35	10.595	
10,000.00	9,961.39	17,867.69	10,793.29	29.74	123.52	-86.60	502.91	2.57	976.76	873.10	103.66	9.423	
10,100.00	10,061.39	17,869.29	10,793.31	29.79	123.55	-86.78	501.31	2.52	893.13	785.51	107.62	8.299	
10,200.00	10,161.39	17,870.90	10,793.34	29.83	123.58	-86.96	499.70	2.46	813.20	700.84	112.36	7.237	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com 2BS 11H - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 179-MWD													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
10,300.00	10,261.39	17,872.51	10,793.36	29.87	123.60	-87.14	498.10	2.41	738.17	620.21	117.97	6.257	
10,400.00	10,361.39	17,874.11	10,793.39	29.91	123.63	-87.32	496.49	2.35	669.70	545.27	124.44	5.382	
10,500.00	10,461.39	17,875.72	10,793.41	29.96	123.66	-87.50	494.89	2.30	610.00	478.47	131.53	4.638	
10,600.00	10,561.39	17,877.33	10,793.44	30.00	123.68	-87.68	493.28	2.25	561.87	423.27	138.59	4.054	
10,700.00	10,661.37	17,880.00	10,793.48	29.99	123.73	93.36	490.61	2.16	528.52	384.03	144.48	3.658	
10,800.00	10,760.16	17,896.72	10,793.74	29.85	124.00	93.05	473.90	1.61	513.40	365.44	147.96	3.470	
10,829.02	10,788.20	17,904.88	10,793.87	29.80	124.13	92.25	465.75	1.35	512.61	364.22	148.39	3.455 CC, ES, SF	
10,900.00	10,854.91	17,930.89	10,794.27	29.67	124.56	89.10	439.75	0.55	517.04	368.67	148.36	3.485	
11,000.00	10,942.73	17,981.47	10,795.06	29.48	125.39	82.34	389.20	-0.89	535.86	389.53	146.33	3.662	
11,100.00	11,020.96	18,047.10	10,796.06	29.30	126.46	74.16	323.60	-2.49	563.81	420.55	143.26	3.936	
11,200.00	11,087.23	18,125.53	10,796.77	29.16	127.72	66.18	245.18	-3.75	594.45	454.16	140.29	4.237	
11,300.00	11,139.51	18,214.81	10,797.44	29.08	129.14	59.63	155.90	-4.38	622.24	484.09	138.14	4.504	
11,400.00	11,176.22	18,273.00	10,797.93	29.08	130.07	55.94	97.72	-4.71	644.51	507.96	136.54	4.720	
11,500.00	11,196.24	18,273.00	10,797.93	29.18	130.07	53.85	97.72	-4.71	669.26	535.53	133.73	5.004	
11,600.00	11,200.00	18,273.00	10,797.93	29.38	130.07	52.31	97.72	-4.71	698.56	568.52	130.04	5.372	
11,700.00	11,200.00	18,273.00	10,797.93	29.63	130.07	52.31	97.72	-4.71	738.30	612.99	125.31	5.892	
11,800.00	11,200.00	18,273.00	10,797.93	29.92	130.07	52.31	97.72	-4.71	788.79	668.75	120.05	6.571	
11,900.00	11,200.00	18,273.00	10,797.93	30.26	130.07	52.31	97.72	-4.71	848.12	733.38	114.73	7.392	
12,000.00	11,200.00	18,273.00	10,797.93	30.63	130.07	52.31	97.72	-4.71	914.55	804.90	109.65	8.341	
12,100.00	11,200.00	18,273.00	10,797.93	31.05	130.07	52.31	97.72	-4.71	986.67	881.72	104.94	9.402	
12,200.00	11,200.00	18,273.00	10,797.93	31.52	130.07	52.31	97.72	-4.71	1,063.30	962.64	100.67	10.563	
12,300.00	11,200.00	18,273.00	10,797.93	32.03	130.07	52.31	97.72	-4.71	1,143.55	1,046.73	96.82	11.811	
12,400.00	11,200.00	18,273.00	10,797.93	32.59	130.07	52.31	97.72	-4.71	1,226.71	1,133.33	93.39	13.136	
12,500.00	11,200.00	18,273.00	10,797.93	33.20	130.07	52.31	97.72	-4.71	1,312.22	1,221.90	90.32	14.528	
12,600.00	11,200.00	18,273.00	10,797.93	33.85	130.07	52.31	97.72	-4.71	1,399.65	1,312.06	87.59	15.980	
12,700.00	11,200.00	18,273.00	10,797.93	34.55	130.07	52.31	97.72	-4.71	1,488.67	1,403.52	85.15	17.483	
12,800.00	11,200.00	18,273.00	10,797.93	35.30	130.07	52.31	97.72	-4.71	1,579.00	1,496.03	82.97	19.031	
12,900.00	11,200.00	18,273.00	10,797.93	36.08	130.07	52.31	97.72	-4.71	1,670.43	1,589.42	81.01	20.619	
13,000.00	11,200.00	18,273.00	10,797.93	36.91	130.07	52.31	97.72	-4.71	1,762.80	1,683.54	79.26	22.241	
13,100.00	11,200.00	18,273.00	10,797.93	37.78	130.07	52.31	97.72	-4.71	1,855.95	1,778.27	77.68	23.893	
13,200.00	11,200.00	18,273.00	10,797.93	38.69	130.07	52.31	97.72	-4.71	1,949.78	1,873.54	76.25	25.572	
13,300.00	11,200.00	18,273.00	10,797.93	39.63	130.07	52.31	97.72	-4.71	2,044.20	1,969.25	74.95	27.273	
13,400.00	11,200.00	18,273.00	10,797.93	40.61	130.07	52.31	97.72	-4.71	2,139.13	2,065.35	73.78	28.994	
13,500.00	11,200.00	18,273.00	10,797.93	41.62	130.07	52.31	97.72	-4.71	2,234.50	2,161.79	72.71	30.733	
13,600.00	11,200.00	18,273.00	10,797.93	42.65	130.07	52.31	97.72	-4.71	2,330.25	2,258.52	71.73	32.486	
13,700.00	11,200.00	18,273.00	10,797.93	43.71	130.07	52.31	97.72	-4.71	2,426.35	2,355.51	70.84	34.251	
13,800.00	11,200.00	18,273.00	10,797.93	44.80	130.07	52.31	97.72	-4.71	2,522.75	2,452.73	70.02	36.027	
13,900.00	11,200.00	18,273.00	10,797.93	45.91	130.07	52.31	97.72	-4.71	2,619.43	2,550.15	69.27	37.813	
14,000.00	11,200.00	18,273.00	10,797.93	47.04	130.07	52.31	97.72	-4.71	2,716.34	2,647.75	68.58	39.606	
14,100.00	11,200.00	18,273.00	10,797.93	48.19	130.07	52.31	97.72	-4.71	2,813.47	2,745.52	67.95	41.405	
14,200.00	11,200.00	18,273.00	10,797.93	49.36	130.07	52.31	97.72	-4.71	2,910.79	2,843.43	67.37	43.209	
14,300.00	11,200.00	18,273.00	10,797.93	50.55	130.07	52.31	97.72	-4.71	3,008.29	2,941.46	66.83	45.017	
14,400.00	11,200.00	18,273.00	10,797.93	51.75	130.07	52.31	97.72	-4.71	3,105.95	3,039.62	66.33	46.828	
14,500.00	11,200.00	18,273.00	10,797.93	52.96	130.07	52.31	97.72	-4.71	3,203.75	3,137.89	65.86	48.641	
14,600.00	11,200.00	18,273.00	10,797.93	54.19	130.07	52.31	97.72	-4.71	3,301.68	3,236.25	65.44	50.456	
14,700.00	11,200.00	18,273.00	10,797.93	55.42	130.07	52.31	97.72	-4.71	3,399.74	3,334.70	65.04	52.271	
14,800.00	11,200.00	18,273.00	10,797.93	56.67	130.07	52.31	97.72	-4.71	3,497.90	3,433.23	64.67	54.086	
14,900.00	11,200.00	18,273.00	10,797.93	57.93	130.07	52.31	97.72	-4.71	3,596.17	3,531.84	64.33	55.900	
15,000.00	11,200.00	18,273.00	10,797.93	59.20	130.07	52.31	97.72	-4.71	3,694.53	3,630.51	64.02	57.713	
15,100.00	11,200.00	18,273.00	10,797.93	60.48	130.07	52.31	97.72	-4.71	3,792.97	3,729.25	63.72	59.524	
15,200.00	11,200.00	18,273.00	10,797.93	61.77	130.07	52.31	97.72	-4.71	3,891.50	3,828.05	63.45	61.332	
15,300.00	11,200.00	18,273.00	10,797.93	63.06	130.07	52.31	97.72	-4.71	3,990.09	3,926.90	63.20	63.138	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com 2BS 11H - OH - Surveys												Offset Site Error:	0.00 usft
Survey Program: 179-MWD												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
15,400.00	11,200.00	18,273.00	10,797.93	64.36	130.07	52.31	97.72	-4.71	4,088.76	4,025.80	62.96	64.941	
15,500.00	11,200.00	18,273.00	10,797.93	65.67	130.07	52.31	97.72	-4.71	4,187.49	4,124.75	62.74	66.741	
15,600.00	11,200.00	18,273.00	10,797.93	66.99	130.07	52.31	97.72	-4.71	4,286.28	4,223.74	62.54	68.536	
15,700.00	11,200.00	18,273.00	10,797.93	68.31	130.07	52.31	97.72	-4.71	4,385.12	4,322.77	62.35	70.328	
15,800.00	11,200.00	18,273.00	10,797.93	69.63	130.07	52.31	97.72	-4.71	4,484.01	4,421.83	62.18	72.115	
15,900.00	11,200.00	18,273.00	10,797.93	70.96	130.07	52.31	97.72	-4.71	4,582.96	4,520.94	62.02	73.897	
16,000.00	11,200.00	18,273.00	10,797.93	72.30	130.07	52.31	97.72	-4.71	4,681.94	4,620.07	61.87	75.675	
16,100.00	11,200.00	18,273.00	10,797.93	73.64	130.07	52.31	97.72	-4.71	4,780.97	4,719.24	61.73	77.447	
16,200.00	11,200.00	18,273.00	10,797.93	74.98	130.07	52.31	97.72	-4.71	4,880.04	4,818.43	61.61	79.214	
16,300.00	11,200.00	18,273.00	10,797.93	76.33	130.07	52.31	97.72	-4.71	4,979.15	4,917.66	61.49	80.975	
16,400.00	11,200.00	18,273.00	10,797.93	77.68	130.07	52.31	97.72	-4.71	5,078.29	5,016.90	61.38	82.731	
16,500.00	11,200.00	18,273.00	10,797.93	79.03	130.07	52.31	97.72	-4.71	5,177.46	5,116.18	61.29	84.481	
16,600.00	11,200.00	18,273.00	10,797.93	80.39	130.07	52.31	97.72	-4.71	5,276.67	5,215.47	61.20	86.224	
16,700.00	11,200.00	18,273.00	10,797.93	81.76	130.07	52.31	97.72	-4.71	5,375.90	5,314.78	61.12	87.961	
16,800.00	11,200.00	18,273.00	10,797.93	83.12	130.07	52.31	97.72	-4.71	5,475.16	5,414.12	61.04	89.692	
16,900.00	11,200.00	18,273.00	10,797.93	84.49	130.07	52.31	97.72	-4.71	5,574.45	5,513.47	60.98	91.416	
17,000.00	11,200.00	18,273.00	10,797.93	85.86	130.07	52.31	97.72	-4.71	5,673.77	5,612.85	60.92	93.134	
17,100.00	11,200.00	18,273.00	10,797.93	87.23	130.07	52.31	97.72	-4.71	5,773.10	5,712.23	60.87	94.844	
17,200.00	11,200.00	18,273.00	10,797.93	88.61	130.07	52.31	97.72	-4.71	5,872.46	5,811.64	60.82	96.548	
17,300.00	11,200.00	18,273.00	10,797.93	89.98	130.07	52.31	97.72	-4.71	5,971.85	5,911.06	60.79	98.245	
17,400.00	11,200.00	18,273.00	10,797.93	91.36	130.07	52.31	97.72	-4.71	6,071.25	6,010.49	60.75	99.934	
17,500.00	11,200.00	18,273.00	10,797.93	92.74	130.07	52.31	97.72	-4.71	6,170.67	6,109.94	60.73	101.616	
17,600.00	11,200.00	18,273.00	10,797.93	94.13	130.07	52.31	97.72	-4.71	6,270.11	6,209.40	60.70	103.291	
17,700.00	11,200.00	18,273.00	10,797.93	95.51	130.07	52.31	97.72	-4.71	6,369.56	6,308.88	60.69	104.959	
17,800.00	11,200.00	18,273.00	10,797.93	96.90	130.07	52.31	97.72	-4.71	6,469.04	6,408.36	60.67	106.619	
17,900.00	11,200.00	18,273.00	10,797.93	98.29	130.07	52.31	97.72	-4.71	6,568.53	6,507.86	60.67	108.271	
18,000.00	11,200.00	18,273.00	10,797.93	99.68	130.07	52.31	97.72	-4.71	6,668.03	6,607.37	60.66	109.916	
18,017.27	11,200.00	18,273.00	10,797.93	99.92	130.07	52.31	97.72	-4.71	6,685.22	6,624.55	60.66	110.200	



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com 3BS 6H - OH - Surveys													Offset Site Error:	0.00 usft	
Survey Program:		190-MWD		Offset		Semi Maior Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 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		
0.00	0.00	0.00	66.50	1.41	1.00	6.52	7,602.49	869.16	7,652.30						
100.00	100.00	38.40	104.90	1.47	1.04	6.52	7,602.48	869.11	7,652.00	7,649.48	2.52	3,038.363			
200.00	200.00	153.01	219.51	1.89	1.56	6.52	7,602.38	868.38	7,651.84	7,648.40	3.44	2,225.289			
300.00	300.00	249.13	315.62	2.24	2.08	6.51	7,602.24	867.30	7,651.57	7,647.28	4.30	1,779.952			
400.00	400.00	369.80	436.29	2.56	2.55	6.50	7,602.05	866.29	7,651.34	7,646.30	5.04	1,518.824			
500.00	500.00	450.76	517.24	2.84	2.80	6.50	7,601.80	865.57	7,650.94	7,645.41	5.53	1,383.415			
600.00	600.00	536.94	603.41	3.09	3.06	6.49	7,601.81	864.72	7,650.84	7,644.83	6.00	1,274.190			
700.00	700.00	660.57	727.04	3.33	3.43	6.48	7,601.83	863.12	7,650.72	7,644.18	6.54	1,170.405			
734.47	734.47	668.00	734.47	3.41	3.45	6.48	7,601.81	863.02	7,650.64	7,644.01	6.63	1,153.722			
800.00	800.00	697.09	763.55	3.56	3.52	6.47	7,601.85	862.74	7,650.74	7,643.93	6.81	1,123.295			
900.00	900.00	737.00	803.46	3.77	3.62	6.47	7,602.28	862.76	7,651.69	7,644.62	7.07	1,082.162			
1,000.00	1,000.00	737.00	803.46	3.97	3.62	6.47	7,602.28	862.76	7,653.60	7,646.33	7.27	1,052.321			
1,100.00	1,100.00	802.85	869.29	4.17	3.86	6.48	7,603.74	863.55	7,656.09	7,648.44	7.65	1,000.159			
1,200.00	1,200.00	874.69	941.07	4.36	4.04	6.49	7,606.04	865.10	7,659.45	7,651.42	8.04	953.128			
1,300.00	1,300.00	1,024.02	1,090.31	4.54	4.24	6.51	7,610.24	868.14	7,662.47	7,653.92	8.55	896.056			
1,400.00	1,400.00	1,100.06	1,166.32	4.71	4.35	6.52	7,612.30	869.55	7,665.37	7,656.49	8.88	863.033			
1,500.00	1,500.00	1,265.42	1,331.60	4.89	4.60	6.54	7,616.34	872.56	7,668.01	7,658.61	9.40	815.571			
1,600.00	1,600.00	1,368.43	1,434.58	5.05	4.77	6.55	7,618.35	874.07	7,670.11	7,660.33	9.78	784.171			
1,700.00	1,700.00	1,455.86	1,521.98	5.22	4.93	6.55	7,620.19	875.23	7,672.35	7,662.22	10.13	757.207			
1,800.00	1,800.00	1,551.00	1,617.09	5.37	5.10	6.56	7,622.15	876.87	7,674.60	7,664.13	10.47	733.097			
1,900.00	1,900.00	1,609.59	1,675.64	5.53	5.29	6.57	7,623.45	878.24	7,677.14	7,666.33	10.82	709.809			
2,000.00	2,000.00	1,683.00	1,748.98	5.68	5.58	6.59	7,625.73	880.80	7,680.53	7,669.30	11.23	683.982			
2,100.00	2,099.98	1,711.88	1,777.81	5.96	5.67	-40.75	7,626.79	882.06	7,683.06	7,671.51	11.55	665.398			
2,200.00	2,199.84	1,794.78	1,860.54	6.52	5.93	-40.74	7,629.92	886.39	7,683.44	7,671.29	12.16	632.057			
2,300.00	2,299.45	1,872.00	1,937.59	7.05	6.12	-40.77	7,632.75	890.63	7,681.18	7,668.47	12.70	604.717			
2,400.00	2,398.83	1,937.35	2,002.77	7.19	6.36	-40.79	7,635.35	894.52	7,677.47	7,664.46	13.01	589.928			
2,500.00	2,498.20	1,987.00	2,052.24	7.38	6.54	-40.79	7,637.72	897.98	7,674.47	7,661.14	13.33	575.755			
2,600.00	2,597.57	2,049.56	2,114.53	7.60	6.72	-40.80	7,641.02	902.79	7,672.05	7,658.39	13.66	561.508			
2,700.00	2,696.93	2,138.08	2,202.63	7.82	6.97	-40.80	7,645.89	909.87	7,669.94	7,655.86	14.07	545.048			
2,800.00	2,796.30	2,155.00	2,219.47	8.07	7.02	-40.80	7,646.83	911.20	7,668.32	7,654.01	14.32	535.659			
2,900.00	2,895.67	2,213.86	2,277.99	8.32	7.26	-40.79	7,650.54	916.30	7,667.29	7,652.58	14.71	521.060			
2,970.28	2,965.51	2,250.00	2,313.85	8.51	7.41	-40.79	7,653.24	919.90	7,667.24	7,652.25	14.98	511.674			
3,000.00	2,995.04	2,250.00	2,313.85	8.59	7.41	-40.79	7,653.24	919.90	7,667.29	7,652.24	15.05	509.480			
3,100.00	3,094.40	2,338.66	2,401.73	8.87	7.77	-40.77	7,660.20	929.33	7,667.82	7,652.25	15.57	492.545			
3,200.00	3,193.77	2,431.40	2,493.65	9.16	8.08	-40.76	7,667.51	939.31	7,668.40	7,652.34	16.07	477.332			
3,300.00	3,293.14	2,521.09	2,582.52	9.46	8.38	-40.74	7,674.69	948.92	7,669.10	7,652.54	16.56	463.049			
3,400.00	3,392.51	2,615.40	2,675.96	9.76	8.70	-40.72	7,682.31	959.26	7,669.91	7,652.82	17.08	448.963			
3,500.00	3,491.88	2,696.49	2,756.25	10.08	8.98	-40.70	7,688.94	968.47	7,670.86	7,653.28	17.57	436.466			
3,600.00	3,591.24	2,785.89	2,844.72	10.40	9.29	-40.68	7,696.42	978.96	7,672.04	7,653.94	18.10	423.852			
3,700.00	3,690.61	2,886.53	2,944.28	10.73	9.66	-40.65	7,704.86	990.97	7,673.27	7,654.60	18.67	411.016			
3,800.00	3,789.98	2,981.30	3,038.01	11.06	10.00	-40.63	7,712.79	1,002.47	7,674.51	7,655.28	19.23	399.149			
3,900.00	3,889.35	3,278.47	3,332.47	11.40	11.10	-40.55	7,733.31	1,036.84	7,673.65	7,653.27	20.38	376.521			
4,000.00	3,988.72	3,366.68	3,420.02	11.74	11.42	-40.54	7,738.69	1,046.07	7,672.43	7,651.52	20.91	366.859			
4,100.00	4,088.08	18,801.92	11,594.88	12.09	125.95	88.68	223.29	1,264.62	7,587.99	7,514.71	73.28	103.549			
4,200.00	4,187.45	18,793.07	11,594.71	12.44	125.81	88.13	232.12	1,265.19	7,488.41	7,415.04	73.37	102.063			
4,300.00	4,286.82	18,784.22	11,594.53	12.79	125.66	87.58	240.95	1,265.72	7,388.83	7,315.36	73.46	100.576			
4,400.00	4,386.19	18,775.36	11,594.37	13.15	125.52	87.03	249.80	1,266.19	7,289.26	7,215.69	73.56	99.090			
4,500.00	4,485.56	18,766.50	11,594.20	13.51	125.37	86.46	258.65	1,266.62	7,189.69	7,116.02	73.66	97.603			
4,600.00	4,584.92	18,757.63	11,594.04	13.88	125.22	85.89	267.51	1,267.00	7,090.12	7,016.36	73.77	96.117			
4,700.00	4,684.29	18,755.00	11,594.00	14.24	125.18	85.72	270.13	1,267.10	6,990.56	6,916.64	73.92	94.563			
4,800.00	4,783.66	18,755.00	11,594.00	14.61	125.18	85.72	270.13	1,267.10	6,891.02	6,816.91	74.11	92.984			
4,900.00	4,883.03	18,755.00	11,594.00	14.99	125.18	85.72	270.13	1,267.10	6,791.49	6,717.19	74.30	91.408			

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com 3BS 6H - OH - Surveys													Offset Site Error:	0.00 usft	
Survey Program:		190-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 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		
5,000.00	4,982.40	18,738.78	11,593.73	15.36	124.92	84.64	286.34	1,267.64	6,691.94	6,617.59	74.35	90.005			
5,100.00	5,081.76	18,734.25	11,593.66	15.73	124.84	84.34	290.87	1,267.76	6,592.42	6,517.91	74.51	88.480			
5,200.00	5,181.13	18,729.64	11,593.60	16.11	124.77	84.03	295.47	1,267.88	6,492.91	6,418.24	74.67	86.959			
5,300.00	5,280.50	18,724.97	11,593.54	16.49	124.69	83.71	300.15	1,267.98	6,393.41	6,318.58	74.83	85.441			
5,400.00	5,379.87	18,720.22	11,593.48	16.87	124.61	83.39	304.90	1,268.06	6,293.92	6,218.93	74.99	83.927			
5,500.00	5,479.23	18,715.40	11,593.42	17.25	124.53	83.05	309.72	1,268.14	6,194.44	6,119.28	75.16	82.416			
5,600.00	5,578.60	18,710.50	11,593.37	17.64	124.45	82.71	314.62	1,268.20	6,094.97	6,019.64	75.33	80.909			
5,700.00	5,677.97	18,705.52	11,593.32	18.02	124.37	82.37	319.59	1,268.25	5,995.52	5,920.01	75.50	79.406			
5,800.00	5,777.34	18,700.46	11,593.27	18.41	124.29	82.01	324.65	1,268.29	5,896.08	5,820.40	75.68	77.907			
5,900.00	5,876.71	18,695.33	11,593.22	18.79	124.21	81.64	329.79	1,268.30	5,796.65	5,720.79	75.86	76.412			
6,000.00	5,976.07	18,690.11	11,593.18	19.18	124.12	81.27	335.01	1,268.31	5,697.24	5,621.19	76.04	74.921			
6,100.00	6,075.44	18,684.80	11,593.14	19.57	124.03	80.89	340.31	1,268.29	5,597.84	5,521.61	76.23	73.434			
6,200.00	6,174.81	18,679.41	11,593.11	19.96	123.95	80.50	345.71	1,268.26	5,498.45	5,422.03	76.42	71.952			
6,300.00	6,274.18	18,673.93	11,593.08	20.35	123.86	80.09	351.19	1,268.21	5,399.08	5,322.47	76.61	70.474			
6,400.00	6,373.55	18,674.68	11,593.07	20.74	123.87	80.15	356.43	1,268.26	5,299.72	5,222.86	76.86	68.949			
6,500.00	6,472.91	18,664.09	11,593.04	21.14	123.70	79.36	361.02	1,268.08	5,200.39	5,123.37	77.02	67.521			
6,600.00	6,572.28	18,653.64	11,593.01	21.53	123.53	78.58	371.47	1,267.88	5,101.08	5,023.89	77.18	66.093			
6,700.00	6,671.65	18,643.33	11,592.97	21.92	123.36	77.78	381.77	1,267.66	5,001.77	4,924.42	77.35	64.667			
6,800.00	6,771.02	18,633.16	11,592.93	22.32	123.19	76.98	391.94	1,267.43	4,902.48	4,824.96	77.52	63.242			
6,900.00	6,870.39	18,623.12	11,592.89	22.71	123.03	76.18	401.98	1,267.19	4,803.20	4,725.50	77.70	61.820			
7,000.00	6,969.75	18,613.22	11,592.85	23.11	122.87	75.38	411.88	1,266.93	4,703.93	4,626.05	77.88	60.399			
7,100.00	7,069.12	18,603.44	11,592.81	23.51	122.71	74.56	421.65	1,266.66	4,604.69	4,526.62	78.07	58.981			
7,200.00	7,168.49	18,593.79	11,592.76	23.90	122.55	73.75	431.30	1,266.38	4,505.46	4,427.19	78.27	57.564			
7,300.00	7,267.86	18,584.27	11,592.71	24.30	122.39	72.93	440.82	1,266.08	4,406.25	4,327.78	78.47	56.151			
7,400.00	7,367.23	18,574.86	11,592.65	24.70	122.24	72.11	450.22	1,265.78	4,307.07	4,228.39	78.68	54,740			
7,500.00	7,466.59	18,568.00	11,592.61	25.10	122.13	71.50	457.08	1,265.54	4,207.91	4,128.99	78.92	53.317			
7,600.00	7,565.96	18,568.00	11,592.61	25.50	122.13	71.50	457.08	1,265.54	4,108.78	4,029.55	79.23	51.856			
7,700.00	7,665.33	18,568.00	11,592.61	25.90	122.13	71.50	457.08	1,265.54	4,009.70	3,930.15	79.55	50.403			
7,800.00	7,764.70	18,551.45	11,592.52	26.30	121.86	70.00	473.62	1,265.01	3,910.62	3,830.90	79.72	49.052			
7,900.00	7,864.07	18,546.29	11,592.49	26.70	121.77	69.52	478.77	1,264.86	3,811.60	3,731.59	80.01	47.639			
8,000.00	7,963.43	18,541.09	11,592.47	27.10	121.69	69.03	483.97	1,264.71	3,712.63	3,632.32	80.30	46.232			
8,100.00	8,062.80	18,535.85	11,592.44	27.50	121.60	68.54	489.21	1,264.57	3,613.70	3,533.09	80.61	44.831			
8,200.00	8,162.17	18,530.56	11,592.41	27.90	121.52	68.03	494.50	1,264.43	3,514.82	3,433.90	80.92	43.435			
8,300.00	8,261.66	18,525.85	11,592.39	28.29	121.44	67.54	499.21	1,264.32	3,416.08	3,334.82	81.25	42.042			
8,400.00	8,361.44	18,522.86	11,592.38	28.72	121.39	49.27	502.20	1,264.25	3,317.72	3,236.08	81.64	40.640			
8,500.00	8,461.39	18,521.63	11,592.37	29.10	121.37	42.43	503.43	1,264.22	3,219.91	3,137.84	82.07	39.232			
8,600.00	8,561.39	18,521.84	11,592.37	29.17	121.37	87.66	503.21	1,264.23	3,122.72	3,040.17	82.55	37.829			
8,700.00	8,661.39	18,522.19	11,592.38	29.21	121.38	87.69	502.86	1,264.23	3,025.75	2,942.70	83.05	36.431			
8,800.00	8,761.39	18,522.55	11,592.38	29.25	121.39	87.71	502.51	1,264.24	2,928.99	2,845.40	83.59	35.041			
8,900.00	8,861.39	18,522.90	11,592.38	29.29	121.39	87.74	502.16	1,264.25	2,832.45	2,748.30	84.15	33.658			
9,000.00	8,961.39	18,523.26	11,592.38	29.33	121.40	87.77	501.80	1,264.26	2,736.16	2,651.41	84.75	32.284			
9,100.00	9,061.39	18,523.61	11,592.38	29.37	121.40	87.80	501.44	1,264.27	2,640.15	2,554.75	85.39	30.918			
9,200.00	9,161.39	18,523.97	11,592.38	29.41	121.41	87.82	501.08	1,264.27	2,544.44	2,458.36	86.08	29.560			
9,300.00	9,261.39	18,524.33	11,592.39	29.45	121.42	87.85	500.72	1,264.28	2,449.08	2,362.26	86.81	28.211			
9,400.00	9,361.39	18,524.70	11,592.39	29.49	121.42	87.88	500.36	1,264.29	2,354.10	2,266.49	87.61	26.872			
9,500.00	9,461.39	18,525.06	11,592.39	29.54	121.43	87.91	499.99	1,264.30	2,259.55	2,171.09	88.46	25.542			
9,600.00	9,561.39	18,525.43	11,592.39	29.58	121.43	87.93	499.63	1,264.31	2,165.50	2,076.10	89.40	24.222			
9,700.00	9,661.39	18,525.80	11,592.39	29.62	121.44	87.96	499.26	1,264.32	2,072.00	1,981.57	90.42	22.914			
9,800.00	9,761.39	18,526.17	11,592.39	29.66	121.45	87.99	498.89	1,264.33	1,979.13	1,887.58	91.55	21.618			
9,900.00	9,861.39	18,526.54	11,592.40	29.70	121.45	88.02	498.52	1,264.33	1,887.00	1,794.21	92.79	20.335			
10,000.00	9,961.39	18,526.91	11,592.40	29.74	121.46	88.05	498.14	1,264.34	1,795.71	1,701.53	94.17	19.068			
10,100.00	10,061.39	18,527.29	11,592.40	29.79	121.46	88.08	497.77	1,264.35	1,705.39	1,609.68	95.72	17.817			

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com 3BS 6H - OH - Surveys													Offset Site Error:	0.00 usft	
Survey Program:		190-MWD		Offset		Semi Maior Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 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		
10,200.00	10,161.39	18,527.67	11,592.40	29.83	121.47	88.10	497.39	1,264.36	1,616.22	1,518.77	97.44	16.586			
10,300.00	10,261.39	18,528.05	11,592.40	29.87	121.48	88.13	497.01	1,264.37	1,528.38	1,429.00	99.39	15.378			
10,400.00	10,361.39	18,528.43	11,592.40	29.91	121.48	88.16	496.63	1,264.38	1,442.14	1,340.55	101.58	14.196			
10,500.00	10,461.39	18,528.81	11,592.41	29.96	121.49	88.19	496.25	1,264.39	1,357.77	1,253.70	104.07	13.047			
10,600.00	10,561.39	18,529.20	11,592.41	30.00	121.49	88.22	495.86	1,264.40	1,275.67	1,168.78	106.89	11.934			
10,700.00	10,661.37	18,530.43	11,592.41	29.99	121.51	-95.66	494.63	1,264.43	1,196.34	1,086.26	110.08	10.868			
10,800.00	10,760.16	18,542.82	11,592.48	29.85	121.72	-105.88	482.24	1,264.76	1,121.42	1,007.70	113.72	9.861			
10,900.00	10,854.91	18,569.67	11,592.62	29.67	122.16	-112.86	455.41	1,265.60	1,053.72	935.95	117.77	8.947			
11,000.00	10,942.73	18,626.16	11,592.91	29.48	123.08	-116.30	398.94	1,267.27	995.21	873.05	122.16	8.147			
11,100.00	11,020.96	18,712.63	11,593.39	29.30	124.49	-117.24	312.49	1,268.18	946.46	819.91	126.55	7.479			
11,200.00	11,087.23	18,843.41	11,595.76	29.16	126.64	-116.42	181.94	1,261.27	905.07	774.90	130.17	6.953			
11,300.00	11,139.51	18,932.14	11,597.75	29.08	128.06	-117.29	93.66	1,252.59	870.24	736.88	133.36	6.525			
11,400.00	11,176.22	18,949.00	11,598.13	29.08	128.33	-118.98	76.89	1,250.94	847.60	711.04	136.56	6.207			
11,464.66	11,191.12	18,949.00	11,598.13	29.15	128.33	-119.35	76.89	1,250.94	843.35	705.62	137.73	6.123 CC, ES			
11,500.00	11,196.24	18,949.00	11,598.13	29.18	128.33	-119.24	76.89	1,250.94	844.63	706.68	137.95	6.123 SF			
11,600.00	11,200.00	18,949.00	11,598.13	29.38	128.33	-118.44	76.89	1,250.94	861.29	724.29	137.00	6.287			
11,700.00	11,200.00	18,949.00	11,598.13	29.63	128.33	-118.44	76.89	1,250.94	890.66	756.15	134.51	6.621			
11,800.00	11,200.00	18,949.00	11,598.13	29.92	128.33	-118.44	76.89	1,250.94	929.92	798.86	131.05	7.096			
11,900.00	11,200.00	18,949.00	11,598.13	30.26	128.33	-118.44	76.89	1,250.94	977.86	850.91	126.95	7.703			
12,000.00	11,200.00	18,949.00	11,598.13	30.63	128.33	-118.44	76.89	1,250.94	1,033.28	910.77	122.51	8.434			
12,100.00	11,200.00	18,949.00	11,598.13	31.05	128.33	-118.44	76.89	1,250.94	1,095.05	977.06	117.99	9.281			
12,200.00	11,200.00	18,949.00	11,598.13	31.52	128.33	-118.44	76.89	1,250.94	1,162.15	1,048.61	113.54	10.236			
12,300.00	11,200.00	18,949.00	11,598.13	32.03	128.33	-118.44	76.89	1,250.94	1,233.72	1,124.44	109.28	11.289			
12,400.00	11,200.00	18,949.00	11,598.13	32.59	128.33	-118.44	76.89	1,250.94	1,309.02	1,203.74	105.27	12.435			
12,500.00	11,200.00	18,949.00	11,598.13	33.20	128.33	-118.44	76.89	1,250.94	1,387.44	1,285.89	101.54	13.663			
12,600.00	11,200.00	18,949.00	11,598.13	33.85	128.33	-118.44	76.89	1,250.94	1,468.49	1,370.38	98.10	14.969			
12,700.00	11,200.00	18,949.00	11,598.13	34.55	128.33	-118.44	76.89	1,250.94	1,551.75	1,456.80	94.94	16.344			
12,800.00	11,200.00	18,949.00	11,598.13	35.30	128.33	-118.44	76.89	1,250.94	1,636.88	1,544.83	92.05	17.783			
12,900.00	11,200.00	18,949.00	11,598.13	36.08	128.33	-118.44	76.89	1,250.94	1,723.61	1,634.21	89.40	19.280			
13,000.00	11,200.00	18,949.00	11,598.13	36.91	128.33	-118.44	76.89	1,250.94	1,811.71	1,724.73	86.98	20.829			
13,100.00	11,200.00	18,949.00	11,598.13	37.78	128.33	-118.44	76.89	1,250.94	1,900.99	1,816.22	84.77	22.426			
13,200.00	11,200.00	18,949.00	11,598.13	38.69	128.33	-118.44	76.89	1,250.94	1,991.29	1,908.54	82.74	24.065			
13,300.00	11,200.00	18,949.00	11,598.13	39.63	128.33	-118.44	76.89	1,250.94	2,082.47	2,001.58	80.89	25.744			
13,400.00	11,200.00	18,949.00	11,598.13	40.61	128.33	-118.44	76.89	1,250.94	2,174.43	2,095.24	79.20	27.456			
13,500.00	11,200.00	18,949.00	11,598.13	41.62	128.33	-118.44	76.89	1,250.94	2,267.07	2,189.43	77.64	29.200			
13,600.00	11,200.00	18,949.00	11,598.13	42.65	128.33	-118.44	76.89	1,250.94	2,360.31	2,284.11	76.21	30.972			
13,700.00	11,200.00	18,949.00	11,598.13	43.71	128.33	-118.44	76.89	1,250.94	2,454.09	2,379.19	74.89	32.768			
13,800.00	11,200.00	18,949.00	11,598.13	44.80	128.33	-118.44	76.89	1,250.94	2,548.33	2,474.65	73.68	34.586			
13,900.00	11,200.00	18,949.00	11,598.13	45.91	128.33	-118.44	76.89	1,250.94	2,643.00	2,570.44	72.56	36.423			
14,000.00	11,200.00	18,949.00	11,598.13	47.04	128.33	-118.44	76.89	1,250.94	2,738.05	2,666.52	71.53	38.277			
14,100.00	11,200.00	18,949.00	11,598.13	48.19	128.33	-118.44	76.89	1,250.94	2,833.44	2,762.86	70.58	40.146			
14,200.00	11,200.00	18,949.00	11,598.13	49.36	128.33	-118.44	76.89	1,250.94	2,929.14	2,859.44	69.70	42.028			
14,300.00	11,200.00	18,949.00	11,598.13	50.55	128.33	-118.44	76.89	1,250.94	3,025.12	2,956.24	68.88	43.920			
14,400.00	11,200.00	18,949.00	11,598.13	51.75	128.33	-118.44	76.89	1,250.94	3,121.34	3,053.23	68.12	45.822			
14,500.00	11,200.00	18,949.00	11,598.13	52.96	128.33	-118.44	76.89	1,250.94	3,217.80	3,150.39	67.41	47.731			
14,600.00	11,200.00	18,949.00	11,598.13	54.19	128.33	-118.44	76.89	1,250.94	3,314.47	3,247.71	66.76	49.647			
14,700.00	11,200.00	18,949.00	11,598.13	55.42	128.33	-118.44	76.89	1,250.94	3,411.33	3,345.18	66.15	51.568			
14,800.00	11,200.00	18,949.00	11,598.13	56.67	128.33	-118.44	76.89	1,250.94	3,508.37	3,442.78	65.59	53.492			
14,900.00	11,200.00	18,949.00	11,598.13	57.93	128.33	-118.44	76.89	1,250.94	3,605.57	3,540.51	65.06	55.419			
15,000.00	11,200.00	18,949.00	11,598.13	59.20	128.33	-118.44	76.89	1,250.94	3,702.91	3,638.34	64.57	57.348			
15,100.00	11,200.00	18,949.00	11,598.13	60.48	128.33	-118.44	76.89	1,250.94	3,800.40	3,736.29	64.11	59.278			
15,200.00	11,200.00	18,949.00	11,598.13	61.77	128.33	-118.44	76.89	1,250.94	3,898.01	3,834.33	63.69	61.207			

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com 3BS 6H - OH - Surveys												Offset Site Error:	0.00 usft
Survey Program: 190-MWD												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,300.00	11,200.00	18,949.00	11,598.13	63.06	128.33	-118.44	76.89	1,250.94	3,995.74	3,932.46	63.29	63.136	
15,400.00	11,200.00	18,949.00	11,598.13	64.36	128.33	-118.44	76.89	1,250.94	4,093.58	4,030.67	62.92	65.063	
15,500.00	11,200.00	18,949.00	11,598.13	65.67	128.33	-118.44	76.89	1,250.94	4,191.53	4,128.95	62.57	66.988	
15,600.00	11,200.00	18,949.00	11,598.13	66.99	128.33	-118.44	76.89	1,250.94	4,289.56	4,227.31	62.25	68.911	
15,700.00	11,200.00	18,949.00	11,598.13	68.31	128.33	-118.44	76.89	1,250.94	4,387.69	4,325.74	61.95	70.829	
15,800.00	11,200.00	18,949.00	11,598.13	69.63	128.33	-118.44	76.89	1,250.94	4,485.90	4,424.23	61.67	72.744	
15,900.00	11,200.00	18,949.00	11,598.13	70.96	128.33	-118.44	76.89	1,250.94	4,584.18	4,522.78	61.40	74.655	
16,000.00	11,200.00	18,949.00	11,598.13	72.30	128.33	-118.44	76.89	1,250.94	4,682.54	4,621.38	61.16	76.561	
16,100.00	11,200.00	18,949.00	11,598.13	73.64	128.33	-118.44	76.89	1,250.94	4,780.97	4,720.04	60.93	78.461	
16,200.00	11,200.00	18,949.00	11,598.13	74.98	128.33	-118.44	76.89	1,250.94	4,879.46	4,818.74	60.72	80.357	
16,300.00	11,200.00	18,949.00	11,598.13	76.33	128.33	-118.44	76.89	1,250.94	4,978.01	4,917.48	60.53	82.246	
16,400.00	11,200.00	18,949.00	11,598.13	77.68	128.33	-118.44	76.89	1,250.94	5,076.62	5,016.28	60.34	84.129	
16,500.00	11,200.00	18,949.00	11,598.13	79.03	128.33	-118.44	76.89	1,250.94	5,175.28	5,115.11	60.17	86.005	
16,600.00	11,200.00	18,949.00	11,598.13	80.39	128.33	-118.44	76.89	1,250.94	5,273.99	5,213.97	60.02	87.875	
16,700.00	11,200.00	18,949.00	11,598.13	81.76	128.33	-118.44	76.89	1,250.94	5,372.75	5,312.88	59.87	89.737	
16,800.00	11,200.00	18,949.00	11,598.13	83.12	128.33	-118.44	76.89	1,250.94	5,471.55	5,411.82	59.74	91.592	
16,900.00	11,200.00	18,949.00	11,598.13	84.49	128.33	-118.44	76.89	1,250.94	5,570.40	5,510.79	59.61	93.440	
17,000.00	11,200.00	18,949.00	11,598.13	85.86	128.33	-118.44	76.89	1,250.94	5,669.29	5,609.79	59.50	95.280	
17,100.00	11,200.00	18,949.00	11,598.13	87.23	128.33	-118.44	76.89	1,250.94	5,768.21	5,708.82	59.40	97.113	
17,200.00	11,200.00	18,949.00	11,598.13	88.61	128.33	-118.44	76.89	1,250.94	5,867.18	5,807.87	59.30	98.937	
17,300.00	11,200.00	18,949.00	11,598.13	89.98	128.33	-118.44	76.89	1,250.94	5,966.17	5,906.96	59.22	100.753	
17,400.00	11,200.00	18,949.00	11,598.13	91.36	128.33	-118.44	76.89	1,250.94	6,065.20	6,006.07	59.14	102.561	
17,500.00	11,200.00	18,949.00	11,598.13	92.74	128.33	-118.44	76.89	1,250.94	6,164.26	6,105.20	59.07	104.360	
17,600.00	11,200.00	18,949.00	11,598.13	94.13	128.33	-118.44	76.89	1,250.94	6,263.36	6,204.35	59.00	106.151	
17,700.00	11,200.00	18,949.00	11,598.13	95.51	128.33	-118.44	76.89	1,250.94	6,362.47	6,303.53	58.95	107.933	
17,800.00	11,200.00	18,949.00	11,598.13	96.90	128.33	-118.44	76.89	1,250.94	6,461.62	6,402.72	58.90	109.706	
17,900.00	11,200.00	18,949.00	11,598.13	98.29	128.33	-118.44	76.89	1,250.94	6,560.79	6,501.94	58.86	111.471	
18,000.00	11,200.00	18,949.00	11,598.13	99.68	128.33	-118.44	76.89	1,250.94	6,659.99	6,601.17	58.82	113.226	
18,017.27	11,200.00	18,949.00	11,598.13	99.92	128.33	-118.44	76.89	1,250.94	6,677.12	6,618.31	58.81	113.528	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com WCA 10H - OH - Surveys														Offset Site Error:	0.00 usft
Survey Program: 117-MWD														Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	0.00	66.50	1.41	1.00	6.30	7,601.93	838.96	7,648.37						
100.00	100.00	41.86	108.36	1.47	1.04	6.30	7,601.91	838.98	7,648.07	7,645.56	2.51	3,047.358			
200.00	200.00	159.51	226.01	1.89	1.44	6.30	7,601.59	839.17	7,647.81	7,644.49	3.32	2,302.223			
300.00	300.00	345.79	412.28	2.24	2.19	6.30	7,600.10	839.16	7,647.11	7,642.68	4.43	1,728.050			
400.00	400.00	457.65	524.13	2.56	2.45	6.30	7,598.25	839.02	7,645.44	7,640.44	5.00	1,527.731			
500.00	500.00	547.13	613.59	2.84	2.71	6.30	7,596.90	838.69	7,643.90	7,638.35	5.54	1,378.813			
600.00	600.00	644.47	710.92	3.09	2.98	6.30	7,595.50	838.42	7,642.43	7,636.37	6.07	1,259.951			
700.00	700.00	747.99	814.43	3.33	3.31	6.30	7,594.00	838.27	7,640.98	7,634.34	6.64	1,151.210			
800.00	800.00	843.38	909.82	3.56	3.61	6.30	7,592.51	838.19	7,639.43	7,632.26	7.17	1,065.682			
900.00	900.00	911.00	977.43	3.77	3.82	6.30	7,591.71	838.15	7,638.23	7,630.64	7.59	1,006.318			
1,000.00	1,000.00	988.16	1,054.58	3.97	4.05	6.30	7,591.08	838.12	7,637.40	7,629.38	8.02	952.324			
1,100.00	1,100.00	1,090.06	1,156.48	4.17	4.33	6.30	7,590.36	838.16	7,636.70	7,628.21	8.50	898.912			
1,200.00	1,200.00	1,184.91	1,251.33	4.36	4.59	6.30	7,589.67	838.23	7,635.99	7,627.05	8.94	854.232			
1,300.00	1,300.00	1,286.82	1,353.24	4.54	4.86	6.30	7,588.98	838.16	7,635.31	7,625.92	9.39	813.030			
1,400.00	1,400.00	1,376.99	1,443.41	4.71	5.09	6.30	7,588.41	838.09	7,634.68	7,624.88	9.80	778.929			
1,500.00	1,500.00	1,465.76	1,532.18	4.89	5.31	6.30	7,587.98	838.03	7,634.18	7,623.99	10.19	748.985			
1,600.00	1,600.00	1,585.41	1,651.83	5.05	5.64	6.30	7,587.39	837.91	7,633.69	7,623.00	10.69	714.143			
1,700.00	1,700.00	1,737.31	1,803.71	5.22	6.10	6.31	7,585.86	838.26	7,632.74	7,621.43	11.31	674.853			
1,800.00	1,800.00	1,842.65	1,909.04	5.37	6.37	6.32	7,584.18	839.42	7,631.27	7,619.55	11.72	650.890			
1,900.00	1,900.00	1,902.23	1,968.61	5.53	6.49	6.32	7,583.38	840.06	7,630.07	7,618.07	12.00	635.715			
2,000.00	2,000.00	1,954.00	2,020.37	5.68	6.59	6.32	7,583.06	840.14	7,629.48	7,617.23	12.26	622.479			
2,100.00	2,099.98	1,988.27	2,054.64	5.96	6.69	-41.08	7,583.14	839.87	7,628.33	7,615.74	12.59	605.831			
2,200.00	2,199.84	2,048.00	2,114.35	6.52	6.86	-41.14	7,584.11	838.56	7,625.54	7,612.39	13.15	579.707			
2,300.00	2,299.45	2,048.00	2,114.35	7.05	6.86	-41.21	7,584.11	838.56	7,620.75	7,607.22	13.53	563.441			
2,400.00	2,398.83	2,094.87	2,161.17	7.19	6.99	-41.26	7,585.53	836.89	7,615.06	7,601.28	13.78	552.775			
2,500.00	2,498.20	2,142.00	2,208.21	7.38	7.12	-41.31	7,587.47	834.73	7,610.14	7,596.06	14.08	540.649			
2,600.00	2,597.57	2,220.02	2,285.98	7.60	7.18	-41.39	7,591.21	829.73	7,605.76	7,591.44	14.32	531.016			
2,700.00	2,696.93	2,274.40	2,340.09	7.82	7.21	-41.46	7,594.02	825.28	7,601.67	7,587.12	14.55	522.580			
2,800.00	2,796.30	2,331.00	2,396.41	8.07	7.25	-41.53	7,597.40	820.70	7,598.32	7,583.54	14.77	514.314			
2,900.00	2,895.67	2,409.04	2,474.07	8.32	7.26	-41.62	7,602.36	814.81	7,595.44	7,580.46	14.98	507.118			
3,000.00	2,995.04	2,484.10	2,548.79	8.59	7.28	-41.70	7,607.15	809.53	7,592.73	7,577.53	15.19	499.764			
3,100.00	3,094.40	2,825.81	2,889.01	8.87	7.69	-42.10	7,625.18	783.59	7,589.51	7,573.92	15.59	486.812			
3,200.00	3,193.77	3,047.23	3,109.71	9.16	8.13	-42.36	7,630.72	766.74	7,582.84	7,566.79	16.04	472.626			
3,300.00	3,293.14	3,152.43	3,214.69	9.46	8.37	-42.47	7,632.50	760.23	7,575.67	7,559.28	16.39	462.262			
3,400.00	3,392.51	3,250.64	3,312.76	9.76	8.58	-42.57	7,633.93	755.09	7,568.37	7,551.65	16.72	452.669			
3,500.00	3,491.88	3,336.88	3,398.79	10.08	8.79	-42.66	7,635.41	749.32	7,561.22	7,544.18	17.05	443.506			
3,600.00	3,591.24	3,440.07	3,501.60	10.40	9.07	-42.79	7,637.43	740.69	7,554.21	7,536.81	17.40	434.041			
3,700.00	3,690.61	3,593.71	3,654.60	10.73	9.48	-42.98	7,639.83	726.95	7,546.80	7,528.98	17.83	423.362			
3,800.00	3,789.98	3,727.95	3,788.37	11.06	9.86	-43.14	7,641.05	715.81	7,538.84	7,520.60	18.24	413.360			
3,900.00	3,889.35	3,862.54	3,922.53	11.40	10.25	-43.31	7,641.53	704.99	7,530.36	7,511.70	18.66	403.563			
4,000.00	3,988.72	3,938.00	3,997.76	11.74	10.48	-43.39	7,641.67	699.18	7,521.82	7,502.81	19.02	395.502			
4,100.00	4,088.08	4,012.42	4,071.98	12.09	10.70	-43.48	7,642.04	693.66	7,513.63	7,494.25	19.37	387.818			
4,200.00	4,187.45	4,089.42	4,148.77	12.44	10.93	-43.57	7,642.74	688.01	7,505.85	7,486.12	19.73	380.370			
4,300.00	4,286.82	4,162.31	4,221.81	12.79	124.21	149.09	322.09	670.23	7,415.15	7,342.41	72.74	101.937			
4,400.00	4,386.19	4,167.95	4,221.81	13.15	124.13	149.32	327.25	670.02	7,315.32	7,242.46	72.85	100.411			
4,500.00	4,485.56	4,162.77	4,221.81	13.51	124.04	149.56	332.43	669.81	7,215.48	7,142.51	72.97	98.886			
4,600.00	4,584.92	4,160.75	4,221.81	13.88	123.96	149.80	337.62	669.62	7,115.64	7,042.56	73.08	97.363			
4,700.00	4,684.29	4,160.26	4,221.81	14.24	123.87	150.04	342.83	669.44	7,015.81	6,942.61	73.20	95.841			
4,800.00	4,783.66	4,159.71	4,221.81	14.61	123.79	150.29	348.05	669.28	6,915.97	6,842.65	73.32	94.321			
4,900.00	4,883.03	4,159.10	4,221.81	14.99	123.70	150.54	353.28	669.12	6,816.14	6,742.69	73.45	92.803			
5,000.00	4,982.40	4,158.90	4,221.81	15.36	123.66	150.69	356.18	669.04	6,716.31	6,642.71	73.59	91.265			
5,100.00	5,081.76	4,158.82	4,221.81	15.73	123.54	151.05	363.36	668.85	6,616.47	6,542.77	73.71	89.770			

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com WCA 10H - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 117-MWD													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,181.13	18,576.84	11,682.92	16.11	123.46	151.30	368.33	668.72	6,516.64	6,442.80	73.84	88.256	
5,300.00	5,280.50	18,571.84	11,682.83	16.49	123.38	151.57	373.33	668.59	6,416.81	6,342.84	73.97	86.744	
5,400.00	5,379.87	18,566.83	11,682.73	16.87	123.30	151.84	378.34	668.47	6,316.98	6,242.87	74.11	85.236	
5,500.00	5,479.23	18,561.81	11,682.63	17.25	123.22	152.12	383.36	668.34	6,217.15	6,142.90	74.25	83.730	
5,600.00	5,578.60	18,556.77	11,682.53	17.64	123.14	152.41	388.40	668.22	6,117.33	6,042.93	74.39	82.228	
5,700.00	5,677.97	18,551.71	11,682.44	18.02	123.05	152.70	393.45	668.10	6,017.50	5,942.96	74.54	80.728	
5,800.00	5,777.34	18,546.64	11,682.34	18.41	122.97	153.00	398.52	667.99	5,917.67	5,842.99	74.69	79.232	
5,900.00	5,876.71	18,541.56	11,682.24	18.79	122.89	153.32	403.60	667.87	5,817.85	5,743.01	74.84	77.739	
6,000.00	5,976.07	18,536.45	11,682.14	19.18	122.81	153.64	408.70	667.76	5,718.03	5,643.04	74.99	76.250	
6,100.00	6,075.44	18,531.34	11,682.05	19.57	122.72	153.97	413.81	667.65	5,618.21	5,543.06	75.15	74.764	
6,200.00	6,174.81	18,526.21	11,681.95	19.96	122.64	154.31	418.94	667.54	5,518.39	5,443.08	75.30	73.283	
6,300.00	6,274.18	18,521.06	11,681.85	20.35	122.56	154.66	424.09	667.44	5,418.57	5,343.10	75.46	71.805	
6,400.00	6,373.55	18,515.90	11,681.75	20.74	122.47	155.02	429.25	667.34	5,318.75	5,243.12	75.62	70.331	
6,500.00	6,472.91	18,510.72	11,681.65	21.14	122.39	155.40	434.43	667.24	5,218.93	5,143.14	75.79	68.861	
6,600.00	6,572.28	18,505.52	11,681.56	21.53	122.31	155.78	439.62	667.14	5,119.12	5,043.16	75.96	67.395	
6,700.00	6,671.65	18,500.31	11,681.46	21.92	122.22	156.18	444.83	667.04	5,019.31	4,943.18	76.13	65.934	
6,800.00	6,771.02	18,495.09	11,681.36	22.32	122.14	156.59	450.05	666.95	4,919.50	4,843.20	76.30	64.477	
6,900.00	6,870.39	18,489.87	11,681.26	22.71	122.05	157.00	455.26	666.86	4,819.68	4,743.27	76.47	63.020	
7,000.00	6,969.75	18,484.64	11,681.16	23.11	121.96	157.41	460.47	666.77	4,719.83	4,643.25	76.64	61.563	
7,100.00	7,069.12	18,479.41	11,681.06	23.51	121.87	157.82	465.68	666.68	4,620.07	4,543.15	76.81	60.106	
7,200.00	7,168.49	18,474.18	11,680.96	23.90	121.78	158.23	470.89	666.59	4,520.27	4,443.28	76.99	58.649	
7,300.00	7,267.86	18,468.95	11,680.86	24.30	121.69	158.64	476.10	666.50	4,420.46	4,343.38	77.16	57.192	
7,400.00	7,367.23	18,463.72	11,680.76	24.70	121.60	159.05	481.31	666.41	4,320.64	4,243.45	77.33	55.735	
7,500.00	7,466.59	18,458.49	11,679.84	25.10	121.51	159.46	486.52	666.32	4,220.80	4,143.51	77.50	54.278	
7,600.00	7,565.96	18,453.26	11,679.74	25.50	121.42	159.87	491.73	666.23	4,120.96	4,043.54	77.67	52.821	
7,700.00	7,665.33	18,448.03	11,679.64	25.90	121.33	160.28	496.94	666.14	4,021.12	3,943.55	77.84	51.364	
7,800.00	7,764.70	18,442.80	11,679.54	26.30	121.24	160.69	502.15	666.05	3,921.26	3,843.55	78.01	50.007	
7,900.00	7,864.07	18,437.57	11,679.44	26.70	121.15	161.10	507.36	665.96	3,821.41	3,743.53	78.18	48.650	
8,000.00	7,963.43	18,432.34	11,679.34	27.10	121.06	161.51	512.57	665.87	3,721.55	3,643.46	78.35	47.293	
8,100.00	8,062.80	18,427.11	11,679.24	27.50	120.97	161.92	517.78	665.78	3,621.70	3,543.40	78.52	45.936	
8,200.00	8,162.17	18,421.88	11,679.14	27.90	120.88	162.33	522.99	665.69	3,521.85	3,443.34	78.69	44.579	
8,300.00	8,261.54	18,416.65	11,679.04	28.30	120.79	162.74	528.20	665.60	3,421.95	3,343.21	78.86	43.222	
8,400.00	8,360.91	18,411.42	11,678.94	28.70	120.70	163.15	533.41	665.51	3,322.06	3,243.12	79.03	41.865	
8,500.00	8,460.28	18,406.19	11,678.84	29.10	120.61	163.56	538.62	665.42	3,222.00	3,142.73	79.20	40.508	
8,600.00	8,559.65	18,400.96	11,678.74	29.50	120.52	163.97	543.83	665.33	3,122.16	3,042.59	79.37	39.151	
8,700.00	8,659.02	18,395.73	11,678.64	29.90	120.43	164.38	549.04	665.24	3,022.34	2,942.45	79.54	37.794	
8,800.00	8,758.39	18,390.50	11,678.54	30.30	120.34	164.79	554.25	665.15	2,922.53	2,842.32	79.71	36.437	
8,900.00	8,857.76	18,385.27	11,678.44	30.70	120.25	165.20	559.46	665.06	2,822.72	2,742.20	79.88	35.080	
9,000.00	8,957.13	18,380.04	11,678.34	31.10	120.16	165.61	564.67	664.97	2,722.93	2,642.08	80.05	33.723	
9,100.00	9,056.50	18,374.81	11,678.24	31.50	120.07	166.02	569.88	664.88	2,623.15	2,541.94	80.22	32.366	
9,200.00	9,155.87	18,369.58	11,678.14	31.90	119.98	166.43	575.09	664.79	2,523.38	2,441.82	80.39	31.009	
9,300.00	9,255.24	18,364.35	11,678.04	32.30	119.89	166.84	580.30	664.70	2,423.62	2,341.69	80.56	29.652	
9,400.00	9,354.61	18,359.12	11,677.94	32.70	119.80	167.25	585.51	664.61	2,323.87	2,241.58	80.73	28.295	
9,500.00	9,453.98	18,353.89	11,677.84	33.10	119.71	167.66	590.72	664.52	2,224.14	2,141.48	80.90	26.938	
9,600.00	9,553.35	18,348.66	11,677.74	33.50	119.62	168.07	595.93	664.43	2,124.43	2,041.38	81.07	25.581	
9,700.00	9,652.72	18,343.43	11,677.64	33.90	119.53	168.48	601.14	664.34	2,024.75	1,941.31	81.24	24.224	
9,800.00	9,752.09	18,338.20	11,677.54	34.30	119.44	168.89	606.35	664.25	1,925.09	1,841.25	81.41	22.867	
9,900.00	9,851.46	18,332.97	11,677.44	34.70	119.35	169.30	611.56	664.16	1,825.46	1,741.20	81.58	21.510	
10,000.00	9,950.83	18,327.74	11,677.34	35.10	119.26	169.71	616.77	664.07	1,725.87	1,641.18	81.75	20.153	
10,100.00	10,050.20	18,322.51	11,677.24	35.50	119.17	170.12	621.98	663.98	1,626.32	1,541.19	81.92	18.796	
10,200.00	10,149.57	18,317.28	11,677.14	35.90	119.08	170.53	627.19	663.89	1,526.82	1,441.23	82.09	17.439	
10,300.00	10,248.94	18,312.05	11,677.04	36.30	118.99	170.94	632.40	663.80	1,427.39	1,341.31	82.26	16.082	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com WCA 10H - OH - Surveys												Offset Site Error: 0.00 usft	
Survey Program: 117-MWD												Offset Well Error: 1.00 usft	
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
10,400.00	10,361.39	18,438.33	11,680.19	29.91	121.22	77.35	506.79	666.09	1,328.04	1,241.43	86.62	15.333	
10,500.00	10,461.39	18,441.31	11,680.26	29.96	121.27	78.42	503.81	666.13	1,228.79	1,141.60	87.19	14.094	
10,600.00	10,561.39	18,444.18	11,680.33	30.00	121.32	79.46	500.94	666.17	1,129.67	1,041.85	87.82	12.864	
10,700.00	10,661.37	18,448.16	11,680.42	29.99	121.38	-119.24	496.96	666.23	1,030.75	942.21	88.54	11.642	
10,800.00	10,760.16	18,467.72	11,680.84	29.85	121.70	-146.71	477.41	666.51	933.52	844.04	89.48	10.433	
10,900.00	10,854.91	18,501.47	11,681.48	29.67	122.24	-156.02	443.67	667.07	840.86	750.21	90.65	9.276	
11,000.00	10,942.73	18,549.64	11,682.40	29.48	123.02	-159.93	395.52	668.05	755.73	663.63	92.10	8.206	
11,100.00	11,020.96	18,611.15	11,683.59	29.30	124.02	-161.64	334.05	669.75	680.83	587.00	93.83	7.256	
11,200.00	11,087.23	18,683.61	11,684.91	29.16	125.20	-162.11	261.70	673.59	618.74	522.83	95.90	6.452	
11,300.00	11,139.51	18,776.40	11,686.71	29.08	126.71	-161.72	169.08	678.77	571.22	472.87	98.34	5.808	
11,400.00	11,176.22	18,850.00	11,688.15	29.08	127.90	-161.79	95.51	680.09	538.59	438.50	100.09	5.381	
11,461.55	11,190.57	18,850.00	11,688.15	29.14	127.90	-162.00	95.51	680.09	531.93	432.26	99.67	5.337	CC, ES, SF
11,500.00	11,196.24	18,850.00	11,688.15	29.18	127.90	-161.92	95.51	680.09	534.54	435.72	98.82	5.409	
11,600.00	11,200.00	18,850.00	11,688.15	29.38	127.90	-161.39	95.51	680.09	563.80	469.04	94.76	5.949	
11,700.00	11,200.00	18,850.00	11,688.15	29.63	127.90	-161.39	95.51	680.09	611.33	521.93	89.40	6.838	
11,800.00	11,200.00	18,850.00	11,688.15	29.92	127.90	-161.39	95.51	680.09	670.51	586.65	83.87	7.995	
11,900.00	11,200.00	18,850.00	11,688.15	30.26	127.90	-161.39	95.51	680.09	738.54	659.85	78.69	9.385	
12,000.00	11,200.00	18,850.00	11,688.15	30.63	127.90	-161.39	95.51	680.09	813.21	739.10	74.11	10.974	
12,100.00	11,200.00	18,850.00	11,688.15	31.05	127.90	-161.39	95.51	680.09	892.84	822.68	70.15	12.727	
12,200.00	11,200.00	18,850.00	11,688.15	31.52	127.90	-161.39	95.51	680.09	976.23	909.43	66.80	14.615	
12,300.00	11,200.00	18,850.00	11,688.15	32.03	127.90	-161.39	95.51	680.09	1,062.49	998.53	63.96	16.612	
12,400.00	11,200.00	18,850.00	11,688.15	32.59	127.90	-161.39	95.51	680.09	1,150.97	1,089.40	61.57	18.694	
12,500.00	11,200.00	18,850.00	11,688.15	33.20	127.90	-161.39	95.51	680.09	1,241.21	1,181.66	59.55	20.844	
12,600.00	11,200.00	18,850.00	11,688.15	33.85	127.90	-161.39	95.51	680.09	1,332.84	1,275.00	57.84	23.045	
12,700.00	11,200.00	18,850.00	11,688.15	34.55	127.90	-161.39	95.51	680.09	1,425.59	1,369.21	56.38	25.284	
12,800.00	11,200.00	18,850.00	11,688.15	35.30	127.90	-161.39	95.51	680.09	1,519.26	1,464.12	55.14	27.551	
12,900.00	11,200.00	18,850.00	11,688.15	36.08	127.90	-161.39	95.51	680.09	1,613.70	1,559.62	54.08	29.839	
13,000.00	11,200.00	18,850.00	11,688.15	36.91	127.90	-161.39	95.51	680.09	1,708.77	1,655.60	53.17	32.138	
13,100.00	11,200.00	18,850.00	11,688.15	37.78	127.90	-161.39	95.51	680.09	1,804.37	1,751.98	52.38	34.446	
13,200.00	11,200.00	18,850.00	11,688.15	38.69	127.90	-161.39	95.51	680.09	1,900.42	1,848.72	51.70	36.756	
13,300.00	11,200.00	18,850.00	11,688.15	39.63	127.90	-161.39	95.51	680.09	1,996.86	1,945.75	51.11	39.067	
13,400.00	11,200.00	18,850.00	11,688.15	40.61	127.90	-161.39	95.51	680.09	2,093.64	2,043.03	50.60	41.375	
13,500.00	11,200.00	18,850.00	11,688.15	41.62	127.90	-161.39	95.51	680.09	2,190.70	2,140.54	50.16	43.678	
13,600.00	11,200.00	18,850.00	11,688.15	42.65	127.90	-161.39	95.51	680.09	2,288.02	2,238.25	49.77	45.974	
13,700.00	11,200.00	18,850.00	11,688.15	43.71	127.90	-161.39	95.51	680.09	2,385.56	2,336.13	49.43	48.263	
13,800.00	11,200.00	18,850.00	11,688.15	44.80	127.90	-161.39	95.51	680.09	2,483.29	2,434.16	49.13	50.543	
13,900.00	11,200.00	18,850.00	11,688.15	45.91	127.90	-161.39	95.51	680.09	2,581.20	2,532.33	48.87	52.813	
14,000.00	11,200.00	18,850.00	11,688.15	47.04	127.90	-161.39	95.51	680.09	2,679.26	2,630.62	48.65	55.074	
14,100.00	11,200.00	18,850.00	11,688.15	48.19	127.90	-161.39	95.51	680.09	2,777.47	2,729.01	48.45	57.323	
14,200.00	11,200.00	18,850.00	11,688.15	49.36	127.90	-161.39	95.51	680.09	2,875.79	2,827.51	48.28	59.562	
14,300.00	11,200.00	18,850.00	11,688.15	50.55	127.90	-161.39	95.51	680.09	2,974.23	2,926.09	48.13	61.789	
14,400.00	11,200.00	18,850.00	11,688.15	51.75	127.90	-161.39	95.51	680.09	3,072.77	3,024.76	48.01	64.005	
14,500.00	11,200.00	18,850.00	11,688.15	52.96	127.90	-161.39	95.51	680.09	3,171.40	3,123.50	47.90	66.210	
14,600.00	11,200.00	18,850.00	11,688.15	54.19	127.90	-161.39	95.51	680.09	3,270.11	3,222.30	47.81	68.402	
14,700.00	11,200.00	18,850.00	11,688.15	55.42	127.90	-161.39	95.51	680.09	3,368.90	3,321.17	47.73	70.583	
14,800.00	11,200.00	18,850.00	11,688.15	56.67	127.90	-161.39	95.51	680.09	3,467.75	3,420.09	47.67	72.751	
14,900.00	11,200.00	18,850.00	11,688.15	57.93	127.90	-161.39	95.51	680.09	3,566.68	3,519.06	47.61	74.908	
15,000.00	11,200.00	18,850.00	11,688.15	59.20	127.90	-161.39	95.51	680.09	3,665.66	3,618.08	47.57	77.052	
15,100.00	11,200.00	18,850.00	11,688.15	60.48	127.90	-161.39	95.51	680.09	3,764.69	3,717.15	47.54	79.184	
15,200.00	11,200.00	18,850.00	11,688.15	61.77	127.90	-161.39	95.51	680.09	3,863.77	3,816.25	47.52	81.305	
15,300.00	11,200.00	18,850.00	11,688.15	63.06	127.90	-161.39	95.51	680.09	3,962.90	3,915.39	47.51	83.412	
15,400.00	11,200.00	18,850.00	11,688.15	64.36	127.90	-161.39	95.51	680.09	4,062.08	4,014.57	47.51	85.508	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis 1 Fed Com WCA 10H - OH - Surveys													Offset Site Error:	0.00 usft	
Survey Program:		117-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Major Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,500.00	11,200.00	18,850.00	11,688.15	65.67	127.90	-161.39	95.51	680.09	4,161.29	4,113.78	47.51	87.592			
15,600.00	11,200.00	18,850.00	11,688.15	66.99	127.90	-161.39	95.51	680.09	4,260.54	4,213.02	47.52	89.663			
15,700.00	11,200.00	18,850.00	11,688.15	68.31	127.90	-161.39	95.51	680.09	4,359.82	4,312.29	47.53	91.722			
15,800.00	11,200.00	18,850.00	11,688.15	69.63	127.90	-161.39	95.51	680.09	4,459.14	4,411.58	47.55	93.768			
15,900.00	11,200.00	18,850.00	11,688.15	70.96	127.90	-161.39	95.51	680.09	4,558.48	4,510.90	47.58	95.803			
16,000.00	11,200.00	18,850.00	11,688.15	72.30	127.90	-161.39	95.51	680.09	4,657.86	4,610.24	47.61	97.825			
16,100.00	11,200.00	18,850.00	11,688.15	73.64	127.90	-161.39	95.51	680.09	4,757.26	4,709.60	47.65	99.834			
16,200.00	11,200.00	18,850.00	11,688.15	74.98	127.90	-161.39	95.51	680.09	4,856.68	4,808.99	47.69	101.832			
16,300.00	11,200.00	18,850.00	11,688.15	76.33	127.90	-161.39	95.51	680.09	4,956.13	4,908.39	47.74	103.817			
16,400.00	11,200.00	18,850.00	11,688.15	77.68	127.90	-161.39	95.51	680.09	5,055.60	5,007.81	47.79	105.790			
16,500.00	11,200.00	18,850.00	11,688.15	79.03	127.90	-161.39	95.51	680.09	5,155.09	5,107.24	47.84	107.750			
16,600.00	11,200.00	18,850.00	11,688.15	80.39	127.90	-161.39	95.51	680.09	5,254.59	5,206.69	47.90	109.699			
16,700.00	11,200.00	18,850.00	11,688.15	81.76	127.90	-161.39	95.51	680.09	5,354.12	5,306.16	47.96	111.634			
16,800.00	11,200.00	18,850.00	11,688.15	83.12	127.90	-161.39	95.51	680.09	5,453.67	5,405.64	48.03	113.558			
16,900.00	11,200.00	18,850.00	11,688.15	84.49	127.90	-161.39	95.51	680.09	5,553.23	5,505.14	48.09	115.469			
17,000.00	11,200.00	18,850.00	11,688.15	85.86	127.90	-161.39	95.51	680.09	5,652.80	5,604.64	48.16	117.368			
17,100.00	11,200.00	18,850.00	11,688.15	87.23	127.90	-161.39	95.51	680.09	5,752.40	5,704.16	48.24	119.255			
17,200.00	11,200.00	18,850.00	11,688.15	88.61	127.90	-161.39	95.51	680.09	5,852.00	5,803.69	48.31	121.129			
17,300.00	11,200.00	18,850.00	11,688.15	89.98	127.90	-161.39	95.51	680.09	5,951.62	5,903.23	48.39	122.991			
17,400.00	11,200.00	18,850.00	11,688.15	91.36	127.90	-161.39	95.51	680.09	6,051.25	6,002.78	48.47	124.841			
17,500.00	11,200.00	18,850.00	11,688.15	92.74	127.90	-161.39	95.51	680.09	6,150.89	6,102.34	48.56	126.679			
17,600.00	11,200.00	18,850.00	11,688.15	94.13	127.90	-161.39	95.51	680.09	6,250.55	6,201.91	48.64	128.504			
17,700.00	11,200.00	18,850.00	11,688.15	95.51	127.90	-161.39	95.51	680.09	6,350.21	6,301.48	48.73	130.317			
17,800.00	11,200.00	18,850.00	11,688.15	96.90	127.90	-161.39	95.51	680.09	6,449.89	6,401.07	48.82	132.118			
17,900.00	11,200.00	18,850.00	11,688.15	98.29	127.90	-161.39	95.51	680.09	6,549.57	6,500.66	48.91	133.907			
18,000.00	11,200.00	18,850.00	11,688.15	99.68	127.90	-161.39	95.51	680.09	6,649.27	6,600.26	49.01	135.684			
18,017.27	11,200.00	18,850.00	11,688.15	99.92	127.90	-161.39	95.51	680.09	6,666.48	6,617.46	49.02	135.990			

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis Fed Com WCA 16H - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 190-MWD													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	66.50	1.41	1.00	6.75	7,602.70	899.98	7,656.07				
100.00	100.00	48.71	115.21	1.47	1.07	6.75	7,602.65	899.98	7,655.75	7,653.20	2.55	3,007.940	
200.00	200.00	194.12	260.62	1.89	1.82	6.75	7,601.92	900.01	7,655.25	7,651.55	3.70	2,066.475	
300.00	300.00	313.82	380.31	2.24	2.32	6.75	7,600.78	899.78	7,654.28	7,649.71	4.57	1,676.089	
400.00	400.00	423.29	489.78	2.56	2.68	6.75	7,599.68	899.45	7,653.25	7,648.01	5.23	1,461.991	
500.00	500.00	557.31	623.79	2.84	3.09	6.75	7,597.74	899.64	7,651.81	7,645.88	5.93	1,290.227	
600.00	600.00	641.00	707.46	3.09	3.30	6.75	7,596.45	899.64	7,650.29	7,643.90	6.39	1,196.486	
700.00	700.00	774.17	840.62	3.33	3.69	6.76	7,594.39	899.69	7,648.79	7,641.77	7.02	1,089.541	
800.00	800.00	906.06	972.47	3.56	4.09	6.76	7,591.56	899.52	7,646.61	7,638.97	7.64	1,000.654	
900.00	900.00	997.72	1,064.11	3.77	4.36	6.76	7,589.50	899.68	7,644.40	7,636.27	8.13	940.405	
1,000.00	1,000.00	1,106.00	1,172.36	3.97	4.69	6.76	7,587.02	899.95	7,642.15	7,633.50	8.65	883.247	
1,100.00	1,100.00	1,173.71	1,240.06	4.17	4.87	6.77	7,585.52	900.39	7,640.06	7,631.03	9.03	845.804	
1,200.00	1,200.00	1,270.51	1,336.83	4.36	5.14	6.78	7,583.73	901.50	7,638.35	7,628.87	9.48	805.950	
1,300.00	1,300.00	1,374.76	1,441.06	4.54	5.43	6.79	7,581.70	902.31	7,636.50	7,626.57	9.94	768.449	
1,400.00	1,400.00	1,467.93	1,534.20	4.71	5.69	6.80	7,579.86	903.50	7,634.70	7,624.35	10.35	737.698	
1,500.00	1,500.00	1,555.00	1,621.23	4.89	5.89	6.81	7,578.14	905.51	7,633.01	7,622.32	10.69	713.867	
1,600.00	1,600.00	1,637.77	1,703.94	5.05	6.11	6.84	7,576.58	908.23	7,631.53	7,620.48	11.04	691.112	
1,700.00	1,700.00	1,715.98	1,782.07	5.22	6.32	6.86	7,575.22	911.48	7,630.30	7,618.94	11.36	671.925	
1,800.00	1,800.00	1,793.81	1,859.71	5.37	6.55	6.90	7,573.86	916.81	7,629.38	7,617.74	11.64	655.563	
1,900.00	1,900.00	1,878.60	1,944.09	5.53	6.87	6.96	7,572.29	924.97	7,628.71	7,616.80	11.91	640.518	
2,000.00	2,000.00	1,958.00	2,023.03	5.68	7.12	7.03	7,570.85	933.28	7,628.20	7,616.03	12.17	626.943	
2,100.00	2,099.98	1,995.46	2,060.29	5.96	7.23	-40.34	7,570.37	937.23	7,626.94	7,614.47	12.47	611.639	
2,200.00	2,199.84	2,052.00	2,116.47	6.52	7.40	-40.35	7,570.32	943.51	7,624.02	7,611.07	12.95	588.552	
2,300.00	2,299.45	2,052.00	2,116.47	7.05	7.40	-40.41	7,570.32	943.51	7,619.12	7,605.79	13.33	571.579	
2,400.00	2,398.83	2,095.81	2,159.98	7.19	7.54	-40.42	7,570.81	948.65	7,613.30	7,599.76	13.54	562.109	
2,500.00	2,498.20	2,147.00	2,210.75	7.38	7.71	-40.40	7,571.97	955.05	7,608.36	7,594.54	13.82	550.438	
2,600.00	2,597.57	2,191.26	2,254.62	7.60	7.83	-40.38	7,573.25	960.75	7,604.08	7,590.03	14.05	541.141	
2,700.00	2,696.93	2,240.00	2,302.94	7.82	7.95	-40.36	7,574.70	966.99	7,600.21	7,585.92	14.30	531.622	
2,800.00	2,796.30	2,335.00	2,397.11	8.07	8.16	-40.33	7,578.15	979.07	7,596.83	7,582.28	14.56	521.883	
2,900.00	2,895.67	2,364.06	2,425.91	8.32	8.22	-40.32	7,579.44	982.74	7,594.06	7,579.28	14.78	513.711	
3,000.00	2,995.04	2,430.00	2,491.24	8.59	8.36	-40.29	7,582.80	991.02	7,592.04	7,577.00	15.04	504.895	
3,100.00	3,094.40	2,489.39	2,550.06	8.87	8.49	-40.27	7,586.11	998.56	7,590.50	7,575.20	15.30	496.222	
3,200.00	3,193.77	2,573.12	2,632.92	9.16	8.68	-40.24	7,590.84	1,009.53	7,589.19	7,573.61	15.58	486.958	
3,300.00	3,293.14	2,660.41	2,719.26	9.46	8.90	-40.20	7,595.93	1,021.40	7,588.12	7,572.22	15.89	477.432	
3,400.00	3,392.51	2,745.08	2,802.92	9.76	9.11	-40.16	7,600.88	1,033.40	7,587.16	7,570.94	16.22	467.850	
3,500.00	3,491.88	2,823.05	2,879.94	10.08	9.32	-40.13	7,605.71	1,044.53	7,586.53	7,569.99	16.55	458.456	
3,600.00	3,591.24	2,937.79	2,993.29	10.40	9.64	-40.07	7,612.72	1,060.93	7,585.85	7,568.91	16.94	447.866	
3,700.00	3,690.61	3,062.58	3,116.54	10.73	10.01	-40.01	7,620.23	1,078.99	7,585.14	7,567.77	17.37	436.792	
3,800.00	3,789.98	3,287.54	3,339.07	11.06	10.72	-39.91	7,631.03	1,110.14	7,582.88	7,564.91	17.98	421.806	
3,900.00	3,889.35	3,409.65	3,460.13	11.40	11.10	-39.87	7,636.13	1,125.23	7,580.03	7,561.59	18.44	411.031	
4,000.00	3,988.72	3,522.87	3,572.55	11.74	11.46	-39.84	7,640.83	1,137.84	7,577.00	7,558.10	18.89	401.019	
4,100.00	4,088.08	3,632.74	3,681.72	12.09	11.81	-39.82	7,645.28	1,149.33	7,573.76	7,554.42	19.35	391.479	
4,200.00	4,187.45	3,747.97	3,796.31	12.44	12.17	-39.80	7,649.91	1,160.58	7,570.41	7,550.60	19.81	382.151	
4,300.00	4,286.82	19,030.00	11,658.69	12.79	131.77	75.20	99.46	1,774.29	7,543.26	7,470.38	72.88	103.501	
4,400.00	4,386.19	19,030.00	11,658.69	13.15	131.77	75.20	99.46	1,774.29	7,444.48	7,371.42	73.06	101.900	
4,500.00	4,485.56	19,030.00	11,658.69	13.51	131.77	75.20	99.46	1,774.29	7,345.73	7,272.50	73.24	100.302	
4,600.00	4,584.92	19,030.00	11,658.69	13.88	131.77	75.20	99.46	1,774.29	7,247.02	7,173.60	73.42	98.707	
4,700.00	4,684.29	19,030.00	11,658.69	14.24	131.77	75.20	99.46	1,774.29	7,148.34	7,074.74	73.61	97.115	
4,800.00	4,783.66	19,030.00	11,658.69	14.61	131.77	75.20	99.46	1,774.29	7,049.71	6,975.91	73.80	95.527	
4,900.00	4,883.03	19,030.00	11,658.69	14.99	131.77	75.20	99.46	1,774.29	6,951.10	6,877.11	73.99	93.942	
5,000.00	4,982.40	19,030.00	11,658.69	15.36	131.77	75.20	99.46	1,774.29	6,852.54	6,778.35	74.19	92.362	
5,100.00	5,081.76	19,030.00	11,658.69	15.73	131.77	75.20	99.46	1,774.29	6,754.03	6,679.63	74.40	90.785	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis Fed Com WCA 16H - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 190-MWD													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.00	5,181.13	19,030.00	11,658.69	16.11	131.77	75.20	99.46	1,774.29	6,655.55	6,580.95	74.60	89.212	
5,300.00	5,280.50	19,030.00	11,658.69	16.49	131.77	75.20	99.46	1,774.29	6,557.13	6,482.31	74.82	87.644	
5,400.00	5,379.87	19,030.00	11,658.69	16.87	131.77	75.20	99.46	1,774.29	6,458.75	6,383.71	75.03	86.080	
5,500.00	5,479.23	19,030.00	11,658.69	17.25	131.77	75.20	99.46	1,774.29	6,360.42	6,285.16	75.25	84.520	
5,600.00	5,578.60	19,030.00	11,658.69	17.64	131.77	75.20	99.46	1,774.29	6,262.14	6,186.66	75.48	82.965	
5,700.00	5,677.97	19,030.00	11,658.69	18.02	131.77	75.20	99.46	1,774.29	6,163.92	6,088.21	75.71	81.415	
5,800.00	5,777.34	19,030.00	11,658.69	18.41	131.77	75.20	99.46	1,774.29	6,065.76	5,989.81	75.95	79.869	
5,900.00	5,876.71	19,030.00	11,658.69	18.79	131.77	75.20	99.46	1,774.29	5,967.66	5,891.47	76.19	78.329	
6,000.00	5,976.07	19,030.00	11,658.69	19.18	131.77	75.20	99.46	1,774.29	5,869.62	5,793.19	76.43	76.794	
6,100.00	6,075.44	19,026.21	11,658.76	19.57	131.71	75.04	103.25	1,774.53	5,771.65	5,694.99	76.66	75.292	
6,200.00	6,174.81	19,016.25	11,658.95	19.96	131.55	74.61	113.19	1,775.15	5,673.74	5,596.90	76.84	73.839	
6,300.00	6,274.18	18,944.74	11,659.90	20.35	130.45	71.43	184.55	1,779.68	5,575.85	5,499.29	76.56	72.829	
6,400.00	6,373.55	18,933.94	11,659.97	20.74	130.28	70.94	195.33	1,780.36	5,477.94	5,401.19	76.75	71.372	
6,500.00	6,472.91	18,923.22	11,660.05	21.14	130.12	70.44	206.02	1,781.04	5,380.10	5,303.15	76.95	69.916	
6,600.00	6,572.28	18,912.59	11,660.11	21.53	129.95	69.94	216.63	1,781.71	5,282.32	5,205.16	77.16	68.461	
6,700.00	6,671.65	18,902.04	11,660.18	21.92	129.79	69.45	227.16	1,782.37	5,184.60	5,107.23	77.37	67.007	
6,800.00	6,771.02	18,891.57	11,660.24	22.32	129.63	68.95	237.60	1,783.03	5,086.96	5,009.36	77.60	65.554	
6,900.00	6,870.39	18,881.19	11,660.29	22.71	129.47	68.46	247.97	1,783.68	4,989.39	4,911.56	77.83	64.102	
7,000.00	6,969.75	18,870.90	11,660.34	23.11	129.31	67.96	258.24	1,784.32	4,891.90	4,813.82	78.08	62.652	
7,100.00	7,069.12	18,861.85	11,660.39	23.51	129.17	67.53	267.27	1,784.88	4,794.50	4,716.16	78.35	61.197	
7,200.00	7,168.49	18,852.83	11,660.43	23.90	129.03	67.09	276.28	1,785.45	4,697.19	4,618.57	78.62	59.744	
7,300.00	7,267.86	18,843.82	11,660.47	24.30	128.89	66.65	285.26	1,786.01	4,599.98	4,521.07	78.91	58.294	
7,400.00	7,367.23	18,834.84	11,660.51	24.70	128.75	66.20	294.23	1,786.57	4,502.88	4,423.67	79.21	56.847	
7,500.00	7,466.59	18,825.88	11,660.55	25.10	128.61	65.76	303.17	1,787.13	4,405.88	4,326.36	79.52	55.403	
7,600.00	7,565.96	18,816.93	11,660.59	25.50	128.48	65.32	312.10	1,787.69	4,309.01	4,229.16	79.85	53.962	
7,700.00	7,665.33	18,808.01	11,660.63	25.90	128.34	64.87	321.00	1,788.25	4,212.26	4,132.07	80.20	52.525	
7,800.00	7,764.70	18,799.11	11,660.67	26.30	128.20	64.42	329.88	1,788.80	4,115.66	4,035.10	80.56	51.091	
7,900.00	7,864.07	18,788.34	11,660.75	26.70	127.57	62.34	370.59	1,791.15	4,019.18	3,938.46	80.71	49.795	
8,000.00	7,963.43	18,790.92	11,660.69	27.10	128.07	64.01	338.06	1,789.29	3,922.88	3,841.49	81.40	48.195	
8,100.00	8,062.80	18,786.65	11,660.79	27.50	127.70	62.77	362.29	1,790.82	3,826.75	3,745.04	81.71	46.833	
8,200.00	8,162.17	18,743.83	11,660.83	27.90	127.35	61.59	385.06	1,792.13	3,730.77	3,648.71	82.06	45.463	
8,300.00	8,261.66	18,724.64	11,660.83	28.29	127.05	55.96	404.22	1,793.14	3,635.15	3,552.68	82.47	44.078	
8,400.00	8,361.44	18,712.81	11,660.82	28.72	126.87	50.59	416.05	1,793.72	3,540.34	3,457.35	82.99	42.658	
8,500.00	8,461.39	18,707.79	11,660.80	29.10	126.79	46.31	421.05	1,793.95	3,446.57	3,362.94	83.63	41.212	
8,600.00	8,561.39	18,707.95	11,660.80	29.17	126.79	92.31	420.90	1,793.95	3,353.88	3,269.54	84.34	39.766	
8,700.00	8,661.39	18,708.55	11,660.81	29.21	126.80	92.34	420.30	1,793.92	3,261.69	3,176.59	85.10	38.326	
8,800.00	8,761.39	18,709.12	11,660.81	29.25	126.81	92.36	419.74	1,793.89	3,169.98	3,084.06	85.92	36.896	
8,900.00	8,861.39	18,709.66	11,660.81	29.29	126.82	92.39	419.19	1,793.87	3,078.78	2,991.99	86.79	35.476	
9,000.00	8,961.39	18,710.18	11,660.81	29.33	126.82	92.41	418.67	1,793.84	2,988.14	2,900.42	87.71	34.067	
9,100.00	9,061.39	18,710.68	11,660.81	29.37	126.83	92.43	418.17	1,793.82	2,898.12	2,809.41	88.71	32.670	
9,200.00	9,161.39	18,711.16	11,660.81	29.41	126.84	92.45	417.69	1,793.80	2,808.77	2,719.00	89.78	31.286	
9,300.00	9,261.39	18,711.62	11,660.81	29.45	126.85	92.47	417.23	1,793.77	2,720.17	2,629.24	90.93	29.916	
9,400.00	9,361.39	18,712.07	11,660.81	29.49	126.85	92.49	416.79	1,793.75	2,632.38	2,540.22	92.16	28.562	
9,500.00	9,461.39	18,712.49	11,660.81	29.54	126.86	92.51	416.36	1,793.73	2,545.50	2,452.00	93.50	27.225	
9,600.00	9,561.39	18,712.90	11,660.82	29.58	126.87	92.53	415.95	1,793.71	2,459.61	2,364.67	94.94	25.908	
9,700.00	9,661.39	18,713.30	11,660.82	29.62	126.87	92.55	415.56	1,793.69	2,374.82	2,278.33	96.50	24.611	
9,800.00	9,761.39	18,713.68	11,660.82	29.66	126.88	92.57	415.18	1,793.68	2,291.26	2,193.08	98.18	23.337	
9,900.00	9,861.39	18,714.05	11,660.82	29.70	126.88	92.58	414.81	1,793.66	2,209.07	2,109.07	100.00	22.090	
10,000.00	9,961.39	18,714.40	11,660.82	29.74	126.89	92.60	414.45	1,793.64	2,128.41	2,026.43	101.98	20.872	
10,100.00	10,061.39	18,714.75	11,660.82	29.79	126.90	92.61	414.11	1,793.62	2,049.45	1,945.34	104.11	19.686	
10,200.00	10,161.39	18,715.08	11,660.82	29.83	126.90	92.63	413.78	1,793.61	1,972.40	1,865.99	106.41	18.536	
10,300.00	10,261.39	18,715.40	11,660.82	29.87	126.91	92.64	413.46	1,793.59	1,897.49	1,788.60	108.89	17.426	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis Fed Com WCA 16H - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 190-MWD													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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
10,400.00	10,361.39	18,715.71	11,660.82	29.91	126.91	92.66	413.15	1,793.58	1,824.99	1,713.43	111.55	16.360	
10,500.00	10,461.39	18,716.01	11,660.82	29.96	126.91	92.67	412.85	1,793.56	1,755.19	1,640.78	114.40	15.342	
10,600.00	10,561.39	18,716.30	11,660.82	30.00	126.92	92.68	412.56	1,793.55	1,688.43	1,571.00	117.43	14.378	
10,700.00	10,661.37	18,718.29	11,660.82	29.99	126.95	-89.62	410.57	1,793.45	1,625.06	1,504.43	120.63	13.472	
10,800.00	10,760.16	18,742.43	11,660.83	29.85	127.32	-95.96	386.46	1,792.21	1,565.55	1,441.55	124.00	12.626	
10,900.00	10,854.91	18,793.06	11,660.68	29.67	128.11	-100.30	335.93	1,789.15	1,511.20	1,383.76	127.44	11.858	
11,000.00	10,942.73	18,834.17	11,660.52	29.48	128.74	-104.13	294.90	1,786.61	1,463.35	1,332.39	130.96	11.174	
11,100.00	11,020.96	18,896.90	11,660.21	29.30	129.71	-106.42	232.29	1,782.69	1,422.67	1,288.35	134.33	10.591	
11,200.00	11,087.23	18,975.22	11,659.65	29.16	130.92	-107.73	154.12	1,777.75	1,389.24	1,251.79	137.45	10.107	
11,300.00	11,139.51	19,030.00	11,658.69	29.08	131.77	-109.10	99.46	1,774.29	1,362.92	1,222.45	140.47	9.703	
11,400.00	11,176.22	19,030.00	11,658.69	29.08	131.77	-110.51	99.46	1,774.29	1,348.16	1,205.06	143.11	9.421	
11,459.97	11,190.28	19,030.00	11,658.69	29.14	131.77	-110.74	99.46	1,774.29	1,345.72	1,201.49	144.23	9.331 CC, ES	
11,500.00	11,196.24	19,030.00	11,658.69	29.18	131.77	-110.64	99.46	1,774.29	1,346.81	1,202.08	144.73	9.306 SF	
11,600.00	11,200.00	19,030.00	11,658.69	29.38	131.77	-110.03	99.46	1,774.29	1,358.59	1,213.38	145.21	9.356	
11,700.00	11,200.00	19,030.00	11,658.69	29.63	131.77	-110.03	99.46	1,774.29	1,378.81	1,233.85	144.96	9.512	
11,800.00	11,200.00	19,030.00	11,658.69	29.92	131.77	-110.03	99.46	1,774.29	1,405.88	1,261.69	144.19	9.750	
11,900.00	11,200.00	19,030.00	11,658.69	30.26	131.77	-110.03	99.46	1,774.29	1,439.39	1,296.45	142.94	10.070	
12,000.00	11,200.00	19,030.00	11,658.69	30.63	131.77	-110.03	99.46	1,774.29	1,478.92	1,337.62	141.30	10.466	
12,100.00	11,200.00	19,030.00	11,658.69	31.05	131.77	-110.03	99.46	1,774.29	1,524.00	1,384.66	139.34	10.937	
12,200.00	11,200.00	19,030.00	11,658.69	31.52	131.77	-110.03	99.46	1,774.29	1,574.15	1,437.01	137.14	11.478	
12,300.00	11,200.00	19,030.00	11,658.69	32.03	131.77	-110.03	99.46	1,774.29	1,628.90	1,494.12	134.78	12.086	
12,400.00	11,200.00	19,030.00	11,658.69	32.59	131.77	-110.03	99.46	1,774.29	1,687.80	1,555.49	132.31	12.757	
12,500.00	11,200.00	19,030.00	11,658.69	33.20	131.77	-110.03	99.46	1,774.29	1,750.44	1,620.66	129.78	13.487	
12,600.00	11,200.00	19,030.00	11,658.69	33.85	131.77	-110.03	99.46	1,774.29	1,816.43	1,689.17	127.25	14.274	
12,700.00	11,200.00	19,030.00	11,658.69	34.55	131.77	-110.03	99.46	1,774.29	1,885.41	1,760.66	124.74	15.114	
12,800.00	11,200.00	19,030.00	11,658.69	35.30	131.77	-110.03	99.46	1,774.29	1,957.07	1,834.79	122.29	16.004	
12,900.00	11,200.00	19,030.00	11,658.69	36.08	131.77	-110.03	99.46	1,774.29	2,031.13	1,911.23	119.90	16.941	
13,000.00	11,200.00	19,030.00	11,658.69	36.91	131.77	-110.03	99.46	1,774.29	2,107.33	1,989.75	117.59	17.922	
13,100.00	11,200.00	19,030.00	11,658.69	37.78	131.77	-110.03	99.46	1,774.29	2,185.46	2,070.09	115.36	18.944	
13,200.00	11,200.00	19,030.00	11,658.69	38.69	131.77	-110.03	99.46	1,774.29	2,265.30	2,152.06	113.24	20.005	
13,300.00	11,200.00	19,030.00	11,658.69	39.63	131.77	-110.03	99.46	1,774.29	2,346.69	2,235.48	111.21	21.102	
13,400.00	11,200.00	19,030.00	11,658.69	40.61	131.77	-110.03	99.46	1,774.29	2,429.47	2,320.20	109.27	22.234	
13,500.00	11,200.00	19,030.00	11,658.69	41.62	131.77	-110.03	99.46	1,774.29	2,513.50	2,406.07	107.43	23.397	
13,600.00	11,200.00	19,030.00	11,658.69	42.65	131.77	-110.03	99.46	1,774.29	2,598.66	2,492.98	105.68	24.591	
13,700.00	11,200.00	19,030.00	11,658.69	43.71	131.77	-110.03	99.46	1,774.29	2,684.85	2,580.83	104.02	25.812	
13,800.00	11,200.00	19,030.00	11,658.69	44.80	131.77	-110.03	99.46	1,774.29	2,771.96	2,669.52	102.44	27.060	
13,900.00	11,200.00	19,030.00	11,658.69	45.91	131.77	-110.03	99.46	1,774.29	2,859.92	2,758.97	100.94	28.332	
14,000.00	11,200.00	19,030.00	11,658.69	47.04	131.77	-110.03	99.46	1,774.29	2,948.64	2,849.11	99.53	29.626	
14,100.00	11,200.00	19,030.00	11,658.69	48.19	131.77	-110.03	99.46	1,774.29	3,038.07	2,939.88	98.18	30.942	
14,200.00	11,200.00	19,030.00	11,658.69	49.36	131.77	-110.03	99.46	1,774.29	3,128.13	3,031.22	96.91	32.278	
14,300.00	11,200.00	19,030.00	11,658.69	50.55	131.77	-110.03	99.46	1,774.29	3,218.79	3,123.08	95.70	33.633	
14,400.00	11,200.00	19,030.00	11,658.69	51.75	131.77	-110.03	99.46	1,774.29	3,309.98	3,215.42	94.56	35.005	
14,500.00	11,200.00	19,030.00	11,658.69	52.96	131.77	-110.03	99.46	1,774.29	3,401.66	3,308.19	93.47	36.392	
14,600.00	11,200.00	19,030.00	11,658.69	54.19	131.77	-110.03	99.46	1,774.29	3,493.80	3,401.36	92.44	37.795	
14,700.00	11,200.00	19,030.00	11,658.69	55.42	131.77	-110.03	99.46	1,774.29	3,586.37	3,494.91	91.46	39.211	
14,800.00	11,200.00	19,030.00	11,658.69	56.67	131.77	-110.03	99.46	1,774.29	3,679.32	3,588.79	90.53	40.640	
14,900.00	11,200.00	19,030.00	11,658.69	57.93	131.77	-110.03	99.46	1,774.29	3,772.63	3,682.98	89.65	42.081	
15,000.00	11,200.00	19,030.00	11,658.69	59.20	131.77	-110.03	99.46	1,774.29	3,866.28	3,777.47	88.81	43.533	
15,100.00	11,200.00	19,030.00	11,658.69	60.48	131.77	-110.03	99.46	1,774.29	3,960.24	3,872.22	88.02	44.995	
15,200.00	11,200.00	19,030.00	11,658.69	61.77	131.77	-110.03	99.46	1,774.29	4,054.49	3,967.23	87.26	46.466	
15,300.00	11,200.00	19,030.00	11,658.69	63.06	131.77	-110.03	99.46	1,774.29	4,149.00	4,062.47	86.54	47.946	
15,400.00	11,200.00	19,030.00	11,658.69	64.36	131.77	-110.03	99.46	1,774.29	4,243.77	4,157.92	85.85	49.433	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Bucks/ Big Stag Offsets - Minis Fed Com WCA 16H - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 190-MWD													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	11,200.00	19,030.00	11,658.69	65.67	131.77	-110.03	99.46	1,774.29	4,338.77	4,253.58	85.20	50.927	
15,600.00	11,200.00	19,030.00	11,658.69	66.99	131.77	-110.03	99.46	1,774.29	4,433.99	4,349.42	84.57	52.428	
15,700.00	11,200.00	19,030.00	11,658.69	68.31	131.77	-110.03	99.46	1,774.29	4,529.42	4,445.44	83.98	53.934	
15,800.00	11,200.00	19,030.00	11,658.69	69.63	131.77	-110.03	99.46	1,774.29	4,625.04	4,541.63	83.42	55.445	
15,900.00	11,200.00	19,030.00	11,658.69	70.96	131.77	-110.03	99.46	1,774.29	4,720.85	4,637.97	82.88	56.961	
16,000.00	11,200.00	19,030.00	11,658.69	72.30	131.77	-110.03	99.46	1,774.29	4,816.82	4,734.46	82.37	58.481	
16,100.00	11,200.00	19,030.00	11,658.69	73.64	131.77	-110.03	99.46	1,774.29	4,912.96	4,831.08	81.88	60.005	
16,200.00	11,200.00	19,030.00	11,658.69	74.98	131.77	-110.03	99.46	1,774.29	5,009.24	4,927.83	81.41	61.531	
16,300.00	11,200.00	19,030.00	11,658.69	76.33	131.77	-110.03	99.46	1,774.29	5,105.67	5,024.70	80.96	63.061	
16,400.00	11,200.00	19,030.00	11,658.69	77.68	131.77	-110.03	99.46	1,774.29	5,202.23	5,121.69	80.54	64.592	
16,500.00	11,200.00	19,030.00	11,658.69	79.03	131.77	-110.03	99.46	1,774.29	5,298.92	5,218.79	80.13	66.125	
16,600.00	11,200.00	19,030.00	11,658.69	80.39	131.77	-110.03	99.46	1,774.29	5,395.73	5,315.99	79.75	67.659	
16,700.00	11,200.00	19,030.00	11,658.69	81.76	131.77	-110.03	99.46	1,774.29	5,492.66	5,413.28	79.38	69.195	
16,800.00	11,200.00	19,030.00	11,658.69	83.12	131.77	-110.03	99.46	1,774.29	5,589.69	5,510.67	79.03	70.731	
16,900.00	11,200.00	19,030.00	11,658.69	84.49	131.77	-110.03	99.46	1,774.29	5,686.83	5,608.14	78.69	72.267	
17,000.00	11,200.00	19,030.00	11,658.69	85.86	131.77	-110.03	99.46	1,774.29	5,784.06	5,705.69	78.37	73.803	
17,100.00	11,200.00	19,030.00	11,658.69	87.23	131.77	-110.03	99.46	1,774.29	5,881.39	5,803.33	78.07	75.339	
17,200.00	11,200.00	19,030.00	11,658.69	88.61	131.77	-110.03	99.46	1,774.29	5,978.81	5,901.03	77.77	76.874	
17,300.00	11,200.00	19,030.00	11,658.69	89.98	131.77	-110.03	99.46	1,774.29	6,076.31	5,998.81	77.50	78.408	
17,400.00	11,200.00	19,030.00	11,658.69	91.36	131.77	-110.03	99.46	1,774.29	6,173.88	6,096.65	77.23	79.941	
17,500.00	11,200.00	19,030.00	11,658.69	92.74	131.77	-110.03	99.46	1,774.29	6,271.54	6,194.56	76.98	81.473	
17,600.00	11,200.00	19,030.00	11,658.69	94.13	131.77	-110.03	99.46	1,774.29	6,369.27	6,292.53	76.74	83.002	
17,700.00	11,200.00	19,030.00	11,658.69	95.51	131.77	-110.03	99.46	1,774.29	6,467.07	6,390.56	76.51	84.530	
17,800.00	11,200.00	19,030.00	11,658.69	96.90	131.77	-110.03	99.46	1,774.29	6,564.93	6,488.64	76.29	86.056	
17,900.00	11,200.00	19,030.00	11,658.69	98.29	131.77	-110.03	99.46	1,774.29	6,662.86	6,586.78	76.08	87.579	
18,000.00	11,200.00	19,030.00	11,658.69	99.68	131.77	-110.03	99.46	1,774.29	6,760.85	6,684.97	75.88	89.100	
18,017.27	11,200.00	19,030.00	11,658.69	99.92	131.77	-110.03	99.46	1,774.29	6,777.77	6,701.93	75.85	89.362	

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

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COMPASS 5000.15 Build 93A



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Stag Fed Com - 503H - OH / 67940 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 240-MWD+HRGM													Offset Well Error: 1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	1.00	1.00	-90.23	-0.10	-25.00	25.00				
100.00	100.00	100.02	100.02	1.08	1.25	-90.61	-0.27	-24.96	24.96	22.64	2.33	10.727	
200.00	200.00	200.03	200.03	1.60	1.79	-91.77	-0.77	-24.85	24.86	21.48	3.38	7.351	
277.23	277.23	277.23	277.23	1.91	2.20	-93.11	-1.34	-24.74	24.78	20.68	4.09	6.051	
300.00	300.00	299.98	299.98	2.01	2.30	-93.48	-1.50	-24.74	24.79	20.50	4.28	5.787	
400.00	400.00	399.96	399.96	2.35	2.64	-95.05	-2.20	-24.87	24.97	20.03	4.94	5.058	
500.00	500.00	499.95	499.94	2.65	2.92	-96.87	-3.01	-24.97	25.15	19.67	5.48	4.587	
600.00	600.00	599.96	599.95	2.93	3.20	-98.44	-3.72	-25.11	25.39	19.39	5.99	4.238	
700.00	700.00	699.94	699.92	3.18	3.47	-100.00	-4.45	-25.24	25.63	19.16	6.47	3.963	
800.00	800.00	799.87	799.85	3.41	3.72	-101.33	-5.12	-25.57	26.08	19.16	6.91	3.772	
900.00	900.00	899.90	899.88	3.64	3.97	-102.40	-5.71	-25.96	26.58	19.23	7.35	3.616	
1,000.00	1,000.00	999.90	999.87	3.85	4.21	-103.44	-6.30	-26.35	27.09	19.32	7.77	3.488	
1,100.00	1,100.00	1,099.96	1,099.94	4.05	4.44	-104.56	-6.89	-26.53	27.41	19.24	8.16	3.357	
1,200.00	1,200.00	1,200.00	1,199.97	4.24	4.63	-105.22	-7.24	-26.62	27.58	19.06	8.52	3.236	
1,300.00	1,300.00	1,299.99	1,299.97	4.43	4.75	-105.15	-7.22	-26.69	27.65	18.80	8.86	3.123	
1,400.00	1,400.00	1,399.97	1,399.94	4.61	4.87	-104.93	-7.17	-26.89	27.83	18.63	9.20	3.025	
1,500.00	1,500.00	1,499.97	1,499.94	4.78	5.05	-105.03	-7.27	-27.08	28.04	18.49	9.55	2.937	
1,600.00	1,600.00	1,600.08	1,600.06	4.95	5.14	-104.88	-7.19	-27.07	28.01	18.18	9.83	2.850	
1,700.00	1,700.00	1,700.14	1,700.12	5.12	5.24	-104.08	-6.74	-26.88	27.71	17.56	10.15	2.731	
1,800.00	1,800.00	1,800.43	1,800.40	5.28	5.31	-103.30	-6.16	-26.03	26.76	16.36	10.40	2.573	
1,900.00	1,900.00	1,900.64	1,900.58	5.44	5.38	-103.05	-5.60	-24.17	24.82	14.18	10.64	2.333	
2,000.00	2,000.00	2,000.72	2,000.63	5.59	5.48	-103.49	-5.17	-21.56	22.18	11.30	10.88	2.038	
2,098.30	2,098.28	2,099.05	2,098.92	5.87	5.59	-153.87	-4.74	-18.66	20.76	9.53	11.23	1.848 CC	
2,100.00	2,099.98	2,100.75	2,100.62	5.88	5.59	-153.97	-4.74	-18.60	20.76	9.52	11.24	1.847 ES, SF	
2,200.00	2,199.84	2,200.65	2,200.47	6.44	5.72	-161.27	-4.38	-15.42	22.50	10.60	11.90	1.891	
2,300.00	2,299.45	2,300.16	2,299.95	6.98	5.87	-168.85	-4.40	-12.97	28.76	16.18	12.58	2.286	
2,400.00	2,398.83	2,399.60	2,399.36	7.12	6.03	-174.32	-4.86	-10.86	38.31	25.43	12.87	2.976	
2,500.00	2,498.20	2,499.00	2,498.73	7.31	6.21	-177.90	-5.53	-8.61	48.18	34.98	13.19	3.651	
2,600.00	2,597.57	2,598.30	2,598.01	7.53	6.41	179.50	-6.63	-6.46	58.53	45.00	13.53	4.325	
2,700.00	2,696.93	2,697.75	2,697.42	7.76	6.62	177.56	-7.89	-4.26	69.05	55.17	13.88	4.974	
2,800.00	2,796.30	2,797.29	2,796.95	8.00	6.80	176.89	-8.35	-2.73	79.52	65.27	14.24	5.583	
2,900.00	2,895.67	2,897.07	2,896.72	8.26	6.95	176.96	-8.01	-1.70	89.77	75.15	14.62	6.142	
3,000.00	2,995.04	2,996.76	2,996.40	8.53	7.10	176.97	-7.49	-0.38	99.69	84.68	15.01	6.642	
3,100.00	3,094.40	3,097.02	3,096.65	8.81	7.26	176.88	-6.83	1.31	109.26	93.83	15.42	7.084	
3,200.00	3,193.77	3,196.99	3,196.58	9.10	7.43	176.55	-6.10	3.82	118.21	102.37	15.84	7.464	
3,300.00	3,293.14	3,296.75	3,296.31	9.40	7.66	176.22	-5.33	6.52	126.99	110.67	16.32	7.783	
3,400.00	3,392.51	3,395.20	3,394.72	9.71	7.87	175.88	-4.90	9.05	136.12	119.35	16.77	8.115	
3,500.00	3,491.88	3,493.65	3,493.14	10.03	8.09	175.37	-5.44	11.42	146.08	128.87	17.21	8.488	
3,600.00	3,591.24	3,592.08	3,591.53	10.35	8.33	174.72	-6.89	13.71	156.78	139.13	17.65	8.885	
3,700.00	3,690.61	3,691.82	3,691.23	10.68	8.69	174.12	-8.54	15.96	167.68	149.47	18.21	9.206	
3,800.00	3,789.98	3,791.54	3,790.92	11.01	9.02	173.60	-10.00	18.32	178.39	159.62	18.77	9.505	
3,900.00	3,889.35	3,890.91	3,890.25	11.35	9.26	173.15	-11.39	20.73	189.02	169.78	19.24	9.826	
4,000.00	3,988.72	3,989.86	3,989.18	11.70	9.44	173.06	-12.20	22.21	199.81	180.08	19.73	10.125	
4,100.00	4,088.08	4,089.10	4,088.42	12.05	9.57	173.37	-12.22	22.44	210.82	190.59	20.23	10.419	
4,200.00	4,187.45	4,188.73	4,188.05	12.40	9.62	173.79	-11.82	22.38	221.72	200.97	20.75	10.688	
4,300.00	4,286.82	4,287.84	4,287.15	12.76	9.73	174.19	-11.40	22.21	232.68	211.37	21.31	10.917	
4,400.00	4,386.19	4,386.93	4,386.24	13.11	9.84	174.56	-11.02	21.91	243.77	221.87	21.90	11.132	
4,500.00	4,485.56	4,486.01	4,485.32	13.48	9.97	174.95	-10.62	21.42	254.99	232.48	22.50	11.331	
4,600.00	4,584.92	4,585.18	4,584.49	13.84	10.09	175.33	-10.18	20.73	266.31	243.21	23.10	11.527	
4,700.00	4,684.29	4,684.44	4,683.75	14.21	10.21	175.72	-9.65	19.90	277.68	253.98	23.70	11.718	
4,800.00	4,783.66	4,784.18	4,783.48	14.58	10.34	176.11	-9.01	19.00	289.03	264.74	24.30	11.897	
4,900.00	4,883.03	4,884.19	4,883.48	14.95	10.47	176.47	-8.20	18.21	300.19	275.30	24.89	12.059	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Stag Fed Com - 503H - OH / 67940 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 240-MWD+HRGM													Offset Well Error: 1.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,982.40	4,983.23	4,982.51	15.33	10.51	176.83	-7.23	17.39	311.27	285.89	25.38	12.264	
5,100.00	5,081.76	5,082.29	5,081.56	15.70	10.50	177.21	-6.18	16.29	322.50	296.68	25.82	12.488	
5,200.00	5,181.13	5,182.43	5,181.68	16.08	10.50	177.60	-4.94	15.10	333.68	307.41	26.27	12.700	
5,300.00	5,280.50	5,281.03	5,280.27	16.46	10.50	177.97	-3.66	13.91	344.84	318.12	26.72	12.908	
5,400.00	5,379.87	5,379.83	5,379.05	16.84	10.50	178.32	-2.51	12.56	356.21	329.06	27.15	13.118	
5,500.00	5,479.23	5,480.23	5,479.43	17.22	10.51	178.68	-1.18	11.18	367.50	339.90	27.60	13.314	
5,600.00	5,578.60	5,579.13	5,578.32	17.61	10.54	179.00	0.18	9.86	378.73	350.69	28.05	13.503	
5,700.00	5,677.97	5,677.92	5,677.10	17.99	10.55	179.26	1.24	8.69	390.08	361.60	28.48	13.697	
5,800.00	5,777.34	5,777.89	5,777.05	18.38	10.58	179.48	2.08	7.58	401.54	372.62	28.92	13.883	
5,900.00	5,876.71	5,877.69	5,876.85	18.77	10.63	179.68	3.08	6.72	412.71	383.33	29.38	14.047	
6,000.00	5,976.07	5,976.71	5,975.86	19.16	10.69	179.87	4.01	5.82	423.96	394.13	29.83	14.212	
6,100.00	6,075.44	6,076.05	6,075.19	19.55	10.74	-179.94	5.02	4.81	435.25	404.96	30.28	14.373	
6,200.00	6,174.81	6,179.35	6,178.45	19.94	10.81	-179.60	7.16	3.20	446.23	415.48	30.76	14.509	
6,300.00	6,274.18	6,285.15	6,283.98	20.33	11.11	-178.70	13.60	-0.45	455.98	424.71	31.27	14.583	
6,400.00	6,373.55	6,379.03	6,377.33	20.72	11.35	-177.52	22.04	-5.69	465.58	433.87	31.71	14.683	
6,500.00	6,472.91	6,475.64	6,473.30	21.11	11.49	-176.23	30.82	-12.47	476.41	444.26	32.15	14.819	
6,600.00	6,572.28	6,591.23	6,587.99	21.51	11.69	-174.65	43.10	-19.85	486.09	453.38	32.72	14.858	
6,700.00	6,671.65	6,700.85	6,696.53	21.90	11.92	-173.09	57.65	-24.80	492.96	459.65	33.30	14.802	
6,800.00	6,771.02	6,801.20	6,796.23	22.30	12.22	-172.10	68.79	-26.28	498.88	465.03	33.85	14.738	
6,900.00	6,870.39	6,896.54	6,891.27	22.69	12.54	-171.57	76.37	-26.24	505.46	471.06	34.40	14.692	
7,000.00	6,969.75	6,992.98	6,987.59	23.09	12.78	-171.45	80.60	-24.67	512.77	477.79	34.98	14.659	
7,100.00	7,069.12	7,087.54	7,082.10	23.49	12.92	-171.57	82.67	-22.55	520.81	485.29	35.52	14.663	
7,200.00	7,168.49	7,180.98	7,175.53	23.88	12.99	-171.82	82.94	-20.68	530.11	494.10	36.02	14.719	
7,300.00	7,267.86	7,278.37	7,272.90	24.28	13.01	-172.17	82.10	-18.86	540.18	503.66	36.52	14.793	
7,400.00	7,367.23	7,377.36	7,371.86	24.68	13.03	-172.53	81.09	-17.04	550.40	513.38	37.01	14.870	
7,500.00	7,466.59	7,476.33	7,470.81	25.08	13.04	-172.87	79.95	-15.31	560.77	523.27	37.51	14.951	
7,600.00	7,565.96	7,575.69	7,570.15	25.48	13.06	-173.21	78.81	-13.56	571.16	533.16	38.00	15.030	
7,700.00	7,665.33	7,675.37	7,669.81	25.88	13.08	-173.54	77.56	-11.76	581.59	543.09	38.50	15.107	
7,800.00	7,764.70	7,775.18	7,769.59	26.28	13.11	-173.87	76.38	-9.88	591.94	552.95	39.00	15.179	
7,900.00	7,864.07	7,874.91	7,869.30	26.68	13.14	-174.18	75.26	-8.00	602.27	562.77	39.50	15.249	
8,000.00	7,963.43	7,972.36	7,966.72	27.08	13.19	-174.44	74.35	-6.39	612.69	572.70	39.99	15.323	
8,100.00	8,062.80	8,068.07	8,062.44	27.48	13.21	-174.59	74.03	-5.84	623.61	583.18	40.43	15.425	
8,200.00	8,162.17	8,166.84	8,161.21	27.88	13.22	-174.70	73.77	-5.86	634.96	594.11	40.85	15.544	
8,300.00	8,261.66	8,266.52	8,260.89	28.28	13.22	-174.82	73.47	-5.79	645.06	603.79	41.27	15.630	
8,400.00	8,361.44	8,365.88	8,360.24	28.70	13.23	-174.92	73.09	-5.68	651.76	610.03	41.73	15.619	
8,500.00	8,461.39	8,465.33	8,459.69	29.08	13.24	-174.99	72.63	-5.60	655.06	612.93	42.13	15.548	
8,600.00	8,561.39	8,565.60	8,559.96	29.16	13.25	-127.66	72.00	-5.42	655.56	613.32	42.23	15.523	
8,700.00	8,661.39	8,664.45	8,658.81	29.19	13.26	-127.72	71.25	-5.22	655.86	613.56	42.29	15.508	
8,800.00	8,761.39	8,762.49	8,756.84	29.23	13.26	-127.78	70.43	-5.25	656.40	614.06	42.34	15.504	
8,900.00	8,861.39	8,860.02	8,854.37	29.27	13.25	-127.83	69.48	-5.54	657.23	614.86	42.37	15.512	
9,000.00	8,961.39	8,952.53	8,946.86	29.31	13.25	-127.87	68.18	-6.40	658.83	616.46	42.37	15.550	
9,100.00	9,061.39	9,043.38	9,037.67	29.36	13.25	-127.93	65.97	-8.17	661.85	619.48	42.37	15.621	
9,200.00	9,161.39	9,153.20	9,147.45	29.40	13.28	-127.93	64.14	-10.48	664.52	622.07	42.45	15.655	
9,300.00	9,261.39	9,252.96	9,247.18	29.44	13.30	-127.93	62.88	-12.12	666.59	624.11	42.48	15.691	
9,400.00	9,361.39	9,357.76	9,351.96	29.48	13.34	-128.00	60.89	-13.36	668.70	626.15	42.56	15.714	
9,500.00	9,461.39	9,466.70	9,460.90	29.52	13.41	-128.05	60.17	-13.40	669.11	626.44	42.67	15.680	
9,600.00	9,561.39	9,573.83	9,568.03	29.56	13.48	-128.08	60.09	-12.95	668.85	626.05	42.80	15.626	
9,700.00	9,661.39	9,681.82	9,676.00	29.60	13.56	-128.08	61.10	-11.49	667.19	624.23	42.97	15.528	
9,800.00	9,761.39	9,783.43	9,777.58	29.64	13.62	-128.12	62.25	-9.34	664.83	621.71	43.12	15.418	
9,900.00	9,861.39	9,883.22	9,877.34	29.68	13.68	-128.14	63.59	-7.31	662.40	619.13	43.27	15.307	
10,000.00	9,961.39	9,982.54	9,976.63	29.73	13.76	-128.13	65.13	-5.52	660.03	616.61	43.42	15.200	
10,100.00	10,061.39	10,066.00	10,060.07	29.77	13.84	-128.12	66.35	-4.18	658.05	614.54	43.51	15.124	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Stag Fed Com - 503H - OH / 67940 - Surveys (H&P 625)												Offset Site Error:	1.00 usft
Survey Program: 240-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,121.49	10,082.88	10,088.81	10,082.88	29.78	14.35	-128.14	66.29	-3.84	613.82	613.84	43.97	14.960	
10,200.00	10,161.39	10,138.26	10,132.24	29.81	15.63	-128.37	63.56	-3.07	659.55	614.62	44.93	14.680	
10,300.00	10,261.39	10,203.84	10,197.19	29.85	17.26	-129.03	54.73	-1.96	666.66	620.41	46.25	14.415	
10,400.00	10,361.39	10,255.00	10,247.26	29.90	18.49	-129.78	44.28	-0.93	679.05	631.89	47.16	14.399	
10,500.00	10,461.39	10,319.85	10,309.31	29.94	18.53	-131.05	25.62	0.37	697.29	649.77	47.52	14.673	
10,600.00	10,561.39	10,350.00	10,337.37	29.98	18.56	-131.78	14.60	0.91	722.97	675.49	47.48	15.228	
10,700.00	10,661.37	10,414.76	10,395.19	29.97	19.51	45.90	-14.42	2.49	753.77	705.47	48.30	15.607	
10,800.00	10,760.16	10,444.00	10,419.95	29.83	20.27	43.03	-29.94	3.50	782.91	734.55	48.36	16.189	
10,900.00	10,854.91	10,500.38	10,465.15	29.65	21.38	40.41	-63.56	5.16	805.98	756.98	49.00	16.449	
11,000.00	10,942.73	10,538.00	10,493.33	29.46	22.12	38.87	-88.45	5.72	823.24	774.07	49.18	16.741	
11,100.00	11,020.96	10,583.06	10,524.58	29.29	22.73	37.91	-120.90	5.97	833.98	784.46	49.52	16.842	
11,200.00	11,087.23	10,633.00	10,555.49	29.15	23.40	37.59	-160.09	5.88	838.25	788.26	49.99	16.770	
11,300.00	11,139.51	10,663.45	10,572.24	29.07	23.67	37.84	-185.52	5.65	835.56	785.66	49.90	16.743	
11,400.00	11,176.22	10,727.00	10,601.55	29.07	24.24	38.85	-241.83	4.75	827.32	776.50	50.82	16.279	
11,500.00	11,196.24	10,727.00	10,601.55	29.16	24.24	39.87	-241.83	4.75	811.41	761.86	49.55	16.375	
11,600.00	11,200.00	10,780.02	10,620.06	29.36	24.43	41.60	-291.46	3.04	790.66	740.92	49.74	15.896	
11,700.00	11,200.00	10,821.00	10,630.65	29.61	24.58	42.27	-330.97	0.72	775.03	725.66	49.37	15.698	
11,800.00	11,200.00	10,875.20	10,639.79	29.90	24.63	42.90	-384.29	-2.00	766.15	716.79	49.36	15.523	
11,900.00	11,200.00	10,950.76	10,644.76	30.24	24.66	43.24	-459.67	-3.09	762.47	712.71	49.76	15.324	
12,000.00	11,200.00	11,044.80	10,649.38	30.62	24.68	43.54	-553.59	-3.63	759.71	709.70	50.01	15.193	
12,100.00	11,200.00	11,147.51	10,653.40	31.04	24.69	43.81	-656.22	-4.28	757.73	707.24	50.48	15.009	
12,200.00	11,200.00	11,253.49	10,656.99	31.51	24.71	43.97	-762.12	-3.04	754.88	703.72	51.16	14.755	
12,300.00	11,200.00	11,372.71	10,661.20	32.02	24.73	44.00	-881.19	1.10	750.32	698.09	52.23	14.365	
12,400.00	11,200.00	11,474.88	10,664.77	32.58	24.75	43.88	-983.11	7.31	743.99	690.90	53.08	14.016	
12,500.00	11,200.00	11,556.91	10,667.98	33.18	25.18	43.91	-1,065.01	10.42	738.97	685.35	53.62	13.783	
12,600.00	11,200.00	11,636.00	10,670.82	33.84	26.07	44.12	-1,144.04	9.90	737.14	682.95	54.19	13.603	
12,606.30	11,200.00	11,636.00	10,670.82	33.88	26.07	44.12	-1,144.04	9.90	737.11	682.98	54.13	13.618	
12,700.00	11,200.00	11,714.73	10,673.11	34.54	26.93	44.45	-1,222.67	6.70	738.18	683.37	54.81	13.469	
12,800.00	11,200.00	11,792.68	10,674.88	35.28	27.77	44.85	-1,300.43	1.59	741.62	686.14	55.48	13.368	
12,900.00	11,200.00	11,876.87	10,676.12	36.07	28.66	45.39	-1,384.20	-6.71	747.96	691.62	56.35	13.274	
13,000.00	11,200.00	11,978.34	10,676.81	36.90	29.75	46.03	-1,485.11	-17.29	755.39	697.74	57.66	13.101	
13,100.00	11,200.00	12,142.97	10,675.71	37.77	31.90	46.31	-1,649.51	-22.89	759.13	698.68	60.45	12.557	
13,200.00	11,200.00	12,285.29	10,675.17	38.68	33.85	45.75	-1,791.38	-11.99	754.08	691.37	62.70	12.026	
13,300.00	11,200.00	12,371.39	10,675.18	39.62	34.90	45.34	-1,877.09	-3.77	747.69	683.77	63.91	11.698	
13,400.00	11,200.00	12,449.27	10,675.02	40.60	35.88	45.09	-1,954.81	1.09	743.85	678.80	65.04	11.436	
13,500.00	11,200.00	12,549.96	10,674.89	41.60	37.12	44.96	-2,055.45	4.06	742.27	675.67	66.60	11.145	
13,600.00	11,200.00	12,658.57	10,677.70	42.64	38.42	45.00	-2,163.99	6.74	739.10	670.76	68.33	10.816	
13,700.00	11,200.00	12,757.82	10,680.55	43.70	39.63	45.04	-2,263.16	9.45	735.55	665.60	69.95	10.516	
13,800.00	11,200.00	12,851.06	10,683.04	44.79	40.77	45.09	-2,356.34	11.51	732.52	661.01	71.51	10.243	
13,900.00	11,200.00	12,953.59	10,685.72	45.90	42.04	45.18	-2,458.82	13.25	729.89	656.62	73.27	9.962	
14,000.00	11,200.00	13,054.14	10,688.51	47.03	43.30	45.26	-2,559.32	15.25	726.93	651.90	75.03	9.689	
14,100.00	11,200.00	13,147.69	10,691.02	48.18	44.48	45.35	-2,652.82	16.61	724.43	647.70	76.73	9.442	
14,200.00	11,200.00	13,253.42	10,693.51	49.35	45.83	45.41	-2,758.50	18.68	721.79	643.16	78.63	9.180	
14,300.00	11,200.00	13,346.79	10,695.53	50.54	47.04	45.47	-2,851.83	20.25	719.48	639.10	80.39	8.950	
14,400.00	11,200.00	13,449.81	10,697.46	51.74	48.38	45.50	-2,954.81	22.30	717.16	634.87	82.29	8.715	
14,500.00	11,200.00	13,545.71	10,699.25	52.95	49.62	45.55	-3,050.68	23.83	715.14	631.00	84.13	8.500	
14,600.00	11,200.00	13,646.55	10,701.03	54.18	50.94	45.60	-3,151.50	25.31	713.28	627.20	86.07	8.287	
14,700.00	11,200.00	13,749.02	10,702.26	55.41	52.29	45.57	-3,253.94	27.67	711.21	623.19	88.01	8.081	
14,800.00	11,200.00	13,839.82	10,703.31	56.66	53.51	45.53	-3,344.69	29.97	709.06	619.25	89.82	7.895	
14,828.35	11,200.00	13,861.16	10,703.52	57.02	53.80	45.55	-3,366.03	30.04	708.92	618.64	90.28	7.852	
14,900.00	11,200.00	13,920.37	10,703.99	57.92	54.60	45.65	-3,425.23	28.94	709.74	618.17	91.57	7.751	
15,000.00	11,200.00	14,017.62	10,704.62	59.19	55.91	45.86	-3,522.45	26.46	711.54	617.91	93.63	7.600	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Stag Fed Com - 503H - OH / 67940 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 240-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,100.00	11,200.00	14,108.58	10,704.41	60.47	57.12	46.04	-3,613.37	23.57	714.40	618.82	95.58	7.475	
15,200.00	11,200.00	14,211.95	10,703.08	61.76	58.49	46.17	-3,716.67	20.42	717.92	620.19	97.73	7.346	
15,300.00	11,200.00	14,324.25	10,702.11	63.05	60.01	46.21	-3,828.97	19.39	719.55	619.55	100.00	7.196	
15,400.00	11,200.00	14,427.69	10,702.86	64.36	61.41	46.38	-3,932.39	17.68	720.68	618.46	102.22	7.050	
15,500.00	11,200.00	14,532.47	10,703.76	65.66	62.83	46.51	-4,037.16	16.93	721.03	616.58	104.45	6.903	
15,600.00	11,200.00	14,631.86	10,704.76	66.98	64.17	46.62	-4,136.54	16.49	721.08	614.48	106.60	6.764	
15,700.00	11,200.00	14,724.62	10,706.47	68.30	65.43	46.85	-4,229.26	14.67	721.68	612.91	108.77	6.635	
15,800.00	11,200.00	14,825.45	10,707.80	69.62	66.80	47.09	-4,330.06	12.21	722.99	611.91	111.08	6.509	
15,900.00	11,200.00	14,922.74	10,710.28	70.95	68.12	47.44	-4,427.26	8.95	724.16	610.71	113.44	6.384	
16,000.00	11,200.00	15,017.04	10,713.09	72.29	69.40	47.87	-4,521.42	4.60	726.00	610.16	115.84	6.267	
16,100.00	11,200.00	15,110.98	10,715.53	73.63	70.67	48.30	-4,615.19	-0.42	728.68	610.42	118.26	6.162	
16,200.00	11,200.00	15,209.31	10,717.41	74.97	72.01	48.72	-4,713.35	-5.82	731.97	611.20	120.77	6.061	
16,300.00	11,200.00	15,223.00	10,717.58	76.32	72.19	48.77	-4,727.02	-6.50	740.37	619.55	120.82	6.128	
16,400.00	11,200.00	15,223.00	10,717.58	77.67	72.19	48.77	-4,727.02	-6.50	761.79	642.86	118.93	6.405	
16,500.00	11,200.00	15,223.00	10,717.58	79.03	72.19	48.77	-4,727.02	-6.50	795.30	679.55	115.74	6.871	
16,600.00	11,200.00	15,223.00	10,717.58	80.39	72.19	48.77	-4,727.02	-6.50	839.45	727.71	111.74	7.513	
16,700.00	11,200.00	15,223.00	10,717.58	81.75	72.19	48.77	-4,727.02	-6.50	892.66	785.32	107.35	8.316	
16,800.00	11,200.00	15,223.00	10,717.58	83.11	72.19	48.77	-4,727.02	-6.50	953.43	850.52	102.91	9.265	
16,900.00	11,200.00	15,223.00	10,717.58	84.48	72.19	48.77	-4,727.02	-6.50	1,020.39	921.74	98.65	10.343	
17,000.00	11,200.00	15,223.00	10,717.58	85.85	72.19	48.77	-4,727.02	-6.50	1,092.42	997.72	94.69	11.536	
17,100.00	11,200.00	15,223.00	10,717.58	87.22	72.19	48.77	-4,727.02	-6.50	1,168.57	1,077.47	91.10	12.828	
17,200.00	11,200.00	15,223.00	10,717.58	88.60	72.19	48.77	-4,727.02	-6.50	1,248.09	1,160.22	87.87	14.204	
17,300.00	11,200.00	15,223.00	10,717.58	89.98	72.19	48.77	-4,727.02	-6.50	1,330.37	1,245.38	85.00	15.652	
17,400.00	11,200.00	15,223.00	10,717.58	91.36	72.19	48.77	-4,727.02	-6.50	1,414.95	1,332.49	82.45	17.161	
17,500.00	11,200.00	15,223.00	10,717.58	92.74	72.19	48.77	-4,727.02	-6.50	1,501.41	1,421.21	80.21	18.719	
17,600.00	11,200.00	15,223.00	10,717.58	94.12	72.19	48.77	-4,727.02	-6.50	1,589.47	1,511.25	78.22	20.319	
17,700.00	11,200.00	15,223.00	10,717.58	95.51	72.19	48.77	-4,727.02	-6.50	1,678.87	1,602.39	76.48	21.953	
17,800.00	11,200.00	15,223.00	10,717.58	96.90	72.19	48.77	-4,727.02	-6.50	1,769.40	1,694.47	74.93	23.613	
17,900.00	11,200.00	15,223.00	10,717.58	98.29	72.19	48.77	-4,727.02	-6.50	1,860.90	1,787.33	73.57	25.295	
18,000.00	11,200.00	15,223.00	10,717.58	99.68	72.19	48.77	-4,727.02	-6.50	1,953.23	1,880.87	72.36	26.993	
18,017.27	11,200.00	15,223.00	10,717.58	99.92	72.19	48.77	-4,727.02	-6.50	1,969.25	1,897.09	72.17	27.288	



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Stag Fed Com - 504H - OH / 67941 - Surveys (H&P 625)												Offset Site Error:	1.00 usft
Survey Program: 241-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	1.00	1.00	-90.46	-0.40	-50.00	50.00				
100.00	100.00	99.99	99.99	1.08	1.25	-90.71	-0.62	-50.01	50.01	47.69	2.33	21.481	
200.00	200.00	199.97	199.97	1.60	1.80	-91.47	-1.28	-50.04	50.06	46.67	3.39	14.787	
300.00	300.00	299.92	299.92	2.01	2.40	-92.69	-2.35	-50.10	50.16	45.78	4.38	11.464	
400.00	400.00	399.89	399.87	2.35	2.91	-94.20	-3.69	-50.26	50.39	45.19	5.20	9.686	
500.00	500.00	499.90	499.87	2.65	3.30	-95.84	-5.15	-50.37	50.64	44.79	5.85	8.656	
600.00	600.00	599.87	599.83	2.93	3.67	-97.27	-6.44	-50.52	50.93	44.49	6.44	7.913	
700.00	700.00	699.84	699.79	3.18	4.01	-98.52	-7.60	-50.73	51.30	44.32	6.98	7.347	
800.00	800.00	799.72	799.67	3.41	4.26	-99.90	-8.90	-51.03	51.81	44.40	7.41	6.995	
900.00	900.00	899.84	899.78	3.64	4.49	-101.03	-10.01	-51.36	52.33	44.53	7.81	6.705	
1,000.00	1,000.00	999.90	999.84	3.85	4.73	-101.94	-10.89	-51.51	52.65	44.45	8.19	6.425	
1,100.00	1,100.00	1,099.79	1,099.73	4.05	4.95	-102.71	-11.68	-51.78	53.09	44.51	8.57	6.193	
1,200.00	1,200.00	1,199.82	1,199.75	4.24	5.17	-103.16	-12.20	-52.19	53.60	44.66	8.94	5.993	
1,300.00	1,300.00	1,299.92	1,299.85	4.43	5.39	-103.70	-12.79	-52.46	53.99	44.69	9.31	5.802	
1,400.00	1,400.00	1,399.87	1,399.80	4.61	5.59	-104.07	-13.19	-52.64	54.27	44.61	9.65	5.621	
1,500.00	1,500.00	1,499.84	1,499.77	4.78	5.78	-104.21	-13.43	-53.01	54.68	44.67	10.01	5.464	
1,600.00	1,600.00	1,599.99	1,599.92	4.95	5.92	-104.30	-13.57	-53.24	54.94	44.61	10.33	5.317	
1,700.00	1,700.00	1,700.07	1,699.99	5.12	6.07	-104.14	-13.45	-53.36	55.03	44.35	10.69	5.150	
1,800.00	1,800.00	1,800.56	1,800.48	5.28	6.10	-103.89	-13.10	-52.96	54.56	43.63	10.92	4.996	
1,900.00	1,900.00	1,900.61	1,900.53	5.44	6.13	-103.53	-12.54	-52.12	53.61	42.48	11.13	4.817	
2,000.00	2,000.00	2,000.63	2,000.55	5.59	6.15	-103.02	-11.85	-51.24	52.59	41.25	11.34	4.636	
2,034.24	2,034.24	2,034.87	2,034.78	5.68	6.16	-150.31	-11.59	-50.93	52.41	40.97	11.44	4.581 ES	
2,100.00	2,099.98	2,100.66	2,100.57	5.88	6.18	-150.73	-11.07	-50.34	53.06	41.41	11.65	4.553 SF	
2,200.00	2,199.84	2,200.71	2,200.60	6.44	6.21	-152.55	-10.07	-49.32	56.44	44.22	12.22	4.619	
2,300.00	2,299.45	2,300.61	2,300.49	6.98	6.24	-155.15	-8.61	-48.20	62.78	49.97	12.80	4.904	
2,400.00	2,398.83	2,400.33	2,400.18	7.12	6.29	-157.96	-6.95	-46.87	71.20	58.14	13.06	5.450	
2,500.00	2,498.20	2,500.06	2,499.89	7.31	6.34	-160.11	-5.12	-45.47	79.72	66.36	13.37	5.965	
2,600.00	2,597.57	2,599.92	2,599.72	7.53	6.40	-161.77	-3.06	-43.88	88.06	74.37	13.69	6.434	
2,700.00	2,696.93	2,699.98	2,699.73	7.76	6.48	-163.13	-0.84	-41.99	96.13	82.11	14.03	6.852	
2,800.00	2,796.30	2,800.29	2,799.99	8.00	6.58	-164.41	1.42	-39.51	103.71	89.32	14.40	7.204	
2,900.00	2,895.67	2,900.67	2,900.29	8.26	6.70	-165.62	3.81	-36.38	110.70	95.92	14.79	7.487	
3,000.00	2,995.04	3,001.01	3,000.52	8.53	6.84	-166.70	6.44	-32.74	117.19	101.98	15.20	7.708	
3,100.00	3,094.40	3,101.60	3,100.99	8.81	6.99	-167.73	9.23	-28.54	123.15	107.51	15.64	7.872	
3,200.00	3,193.77	3,201.33	3,200.58	9.10	7.14	-168.70	12.11	-24.05	128.81	112.72	16.10	8.002	
3,300.00	3,293.14	3,301.47	3,300.57	9.40	7.33	-169.48	15.25	-19.63	134.45	117.86	16.59	8.102	
3,400.00	3,392.51	3,397.00	3,396.01	9.71	7.56	-170.22	17.56	-16.20	141.20	124.06	17.14	8.238	
3,500.00	3,491.88	3,493.31	3,492.30	10.03	7.71	-170.81	18.71	-15.00	150.60	132.96	17.64	8.538	
3,600.00	3,591.24	3,589.50	3,588.47	10.35	7.82	-170.74	19.95	-16.58	162.34	144.27	18.07	8.984	
3,700.00	3,690.61	3,680.00	3,678.80	10.68	8.08	-169.93	21.51	-21.66	177.18	158.62	18.56	9.544	
3,800.00	3,789.98	3,774.00	3,772.28	11.01	8.52	-168.50	23.23	-31.28	195.88	176.74	19.13	10.237	
3,900.00	3,889.35	3,864.39	3,861.73	11.35	8.84	-166.80	25.18	-44.08	217.85	198.25	19.59	11.120	
4,000.00	3,988.72	3,952.78	3,948.67	11.70	9.18	-164.96	27.41	-59.90	243.10	223.05	20.04	12.129	
4,100.00	4,088.08	4,043.07	4,036.90	12.05	9.40	-163.16	29.58	-78.89	271.38	250.93	20.46	13.267	
4,200.00	4,187.45	4,139.09	4,130.52	12.40	9.50	-161.50	31.93	-100.12	300.84	279.99	20.85	14.428	
4,300.00	4,286.82	4,234.93	4,223.98	12.76	9.58	-160.05	34.86	-121.15	330.12	308.89	21.23	15.551	
4,400.00	4,386.19	4,329.72	4,316.42	13.11	9.67	-158.86	37.72	-141.95	359.56	337.95	21.61	16.637	
4,500.00	4,485.56	4,423.28	4,407.63	13.48	9.79	-157.90	40.17	-162.62	389.41	367.40	22.01	17.694	
4,600.00	4,584.92	4,517.29	4,499.24	13.84	9.93	-157.13	42.17	-183.62	419.71	397.28	22.43	18.712	
4,700.00	4,684.29	4,617.31	4,596.82	14.21	10.09	-156.46	44.09	-205.53	449.75	426.82	22.93	19.613	
4,800.00	4,783.66	4,716.02	4,693.28	14.58	10.27	-155.88	46.40	-226.30	478.90	455.46	23.44	20.435	
4,900.00	4,883.03	4,820.54	4,795.49	14.95	10.49	-155.10	51.16	-247.64	506.86	482.84	24.02	21.103	
5,000.00	4,982.40	4,915.93	4,888.61	15.33	10.70	-154.21	57.93	-267.16	534.23	509.71	24.53	21.783	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Stag Fed Com - 504H - OH / 67941 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 241-MWD+HRGM													Offset Well Error: 1.00 usft
Reference	Offset	Rule Assigned:											Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,081.76	5,014.65	4,984.81	15.70	10.94	-153.20	66.60	-287.54	561.45	536.41	25.04	22.423	
5,200.00	5,181.13	5,110.30	5,077.97	16.08	11.19	-152.25	75.64	-307.28	588.64	563.10	25.54	23.048	
5,300.00	5,280.50	5,207.21	5,172.38	16.46	11.45	-151.37	84.80	-327.15	615.85	589.79	26.06	23.629	
5,400.00	5,379.87	5,302.59	5,265.26	16.84	11.72	-150.56	94.06	-346.75	643.17	616.58	26.59	24.192	
5,500.00	5,479.23	5,398.40	5,358.52	17.22	12.00	-149.79	103.58	-366.50	670.61	643.49	27.12	24.724	
5,600.00	5,578.60	5,493.87	5,451.45	17.61	12.30	-149.08	113.12	-386.21	698.18	670.51	27.67	25.232	
5,700.00	5,677.97	5,589.40	5,544.43	17.99	12.60	-148.43	122.59	-405.97	725.89	697.66	28.23	25.713	
5,800.00	5,777.34	5,687.27	5,639.67	18.38	12.92	-147.79	132.52	-426.20	753.63	724.82	28.81	26.157	
5,900.00	5,876.71	5,782.92	5,732.80	18.77	13.27	-147.22	142.15	-445.76	781.25	751.83	29.42	26.558	
6,000.00	5,976.07	5,881.09	5,828.46	19.16	13.63	-146.71	151.67	-465.72	808.87	778.83	30.04	26.928	
6,100.00	6,075.44	5,980.43	5,925.46	19.55	13.98	-146.30	160.27	-485.32	836.12	805.45	30.67	27.264	
6,200.00	6,174.81	6,077.01	6,019.91	19.94	14.33	-145.99	167.80	-504.02	863.17	831.88	31.29	27.588	
6,300.00	6,274.18	6,173.48	6,114.28	20.33	14.68	-145.72	175.07	-522.68	890.25	858.34	31.92	27.893	
6,400.00	6,373.55	6,270.41	6,209.12	20.72	15.04	-145.46	182.36	-541.35	917.28	884.73	32.55	28.177	
6,500.00	6,472.91	6,363.31	6,300.02	21.11	15.39	-145.25	189.03	-559.27	944.40	911.23	33.17	28.467	
6,600.00	6,572.28	6,451.85	6,386.69	21.51	15.72	-145.14	193.98	-576.68	972.09	938.31	33.78	28.774	
6,700.00	6,671.65	6,548.46	6,481.30	21.90	16.09	-145.15	197.19	-595.94	1,000.35	965.89	34.47	29.022	
6,800.00	6,771.02	6,645.15	6,576.20	22.30	16.45	-145.34	197.49	-614.46	1,028.28	993.11	35.17	29.237	
6,900.00	6,870.39	6,745.01	6,674.26	22.69	16.81	-145.61	196.29	-633.31	1,056.19	1,020.28	35.90	29.418	
7,000.00	6,969.75	6,826.06	6,753.83	23.09	17.11	-145.84	194.96	-648.67	1,084.28	1,047.76	36.52	29.690	
7,100.00	7,069.12	6,910.03	6,835.98	23.49	17.43	-146.09	192.90	-665.94	1,114.00	1,076.83	37.17	29.970	
7,200.00	7,168.49	7,009.65	6,933.41	23.88	17.80	-146.39	190.01	-686.51	1,143.95	1,106.00	37.94	30.151	
7,300.00	7,267.86	7,111.34	7,032.99	24.28	18.17	-146.71	186.77	-706.82	1,173.31	1,134.59	38.71	30.306	
7,400.00	7,367.23	7,197.99	7,117.87	24.68	18.48	-146.98	183.72	-724.03	1,202.67	1,163.29	39.38	30.540	
7,500.00	7,466.59	7,283.48	7,201.40	25.08	18.80	-147.22	180.79	-741.99	1,233.10	1,193.05	40.04	30.795	
7,600.00	7,565.96	7,380.01	7,295.67	25.48	19.17	-147.48	177.47	-762.51	1,263.81	1,223.01	40.80	30.979	
7,700.00	7,665.33	7,483.61	7,396.93	25.88	19.56	-147.77	173.45	-784.00	1,294.14	1,252.53	41.61	31.104	
7,800.00	7,764.70	7,596.16	7,507.17	26.28	19.98	-148.09	168.71	-806.21	1,323.60	1,281.12	42.48	31.156	
7,900.00	7,864.07	7,680.73	7,590.09	26.68	20.30	-148.33	165.21	-822.41	1,352.56	1,309.40	43.15	31.344	
8,000.00	7,963.43	7,766.40	7,673.90	27.08	20.64	-148.53	162.01	-839.91	1,382.60	1,338.77	43.83	31.542	
8,100.00	8,062.80	7,860.93	7,766.31	27.48	21.01	-148.74	158.50	-859.46	1,412.93	1,368.34	44.59	31.689	
8,200.00	8,162.17	8,045.54	7,947.63	27.88	21.83	-149.07	154.15	-893.64	1,441.54	1,395.48	46.06	31.297	
8,300.00	8,261.66	8,152.22	8,215.95	28.28	23.15	-149.44	157.17	-918.80	1,458.78	1,410.98	47.80	30.519	
8,400.00	8,361.44	8,454.34	8,355.05	28.70	23.59	-149.67	157.58	-920.67	1,465.50	1,416.95	48.55	30.185	
8,500.00	8,461.39	8,557.08	8,457.80	29.08	23.75	-149.76	157.57	-921.00	1,468.48	1,419.44	49.04	29.942	
8,600.00	8,561.39	8,653.92	8,554.64	29.16	23.87	-102.39	157.34	-921.29	1,469.05	1,419.79	49.26	29.822	
8,700.00	8,661.39	8,752.94	8,653.65	29.19	23.98	-102.40	156.90	-921.69	1,469.55	1,420.09	49.46	29.713	
8,800.00	8,761.39	8,852.00	8,752.71	29.23	24.07	-102.43	156.13	-922.08	1,470.10	1,420.46	49.64	29.615	
8,900.00	8,861.39	8,948.08	8,848.78	29.27	24.15	-102.46	155.23	-922.60	1,470.83	1,421.00	49.83	29.517	
9,000.00	8,961.39	9,047.41	8,948.11	29.31	24.29	-102.48	154.49	-923.37	1,471.74	1,421.69	50.05	29.405	
9,100.00	9,061.39	9,152.41	9,053.11	29.36	24.42	-102.50	153.82	-923.94	1,472.41	1,422.14	50.27	29.293	
9,200.00	9,161.39	9,245.27	9,145.96	29.40	24.53	-102.52	153.10	-924.45	1,473.12	1,422.65	50.46	29.191	
9,300.00	9,261.39	9,329.09	9,229.77	29.44	24.67	-102.55	152.24	-925.66	1,474.75	1,424.06	50.69	29.095	
9,400.00	9,361.39	9,424.02	9,324.66	29.48	24.85	-102.60	150.52	-927.58	1,477.12	1,426.16	50.96	28.988	
9,500.00	9,461.39	9,527.13	9,427.74	29.52	25.06	-102.63	149.11	-929.64	1,479.36	1,428.12	51.25	28.868	
9,600.00	9,561.39	9,628.38	9,528.95	29.56	25.30	-102.61	149.00	-932.37	1,482.02	1,430.50	51.52	28.766	
9,700.00	9,661.39	9,766.70	9,667.24	29.60	25.49	-102.53	151.07	-933.50	1,482.32	1,430.67	51.65	28.699	
9,753.47	9,714.86	9,814.32	9,714.86	29.62	25.54	-102.50	151.78	-933.48	1,482.14	1,430.43	51.70	28.666	
9,800.00	9,761.39	9,849.58	9,750.11	29.64	25.59	-102.48	152.15	-933.70	1,482.31	1,430.55	51.76	28.636	
9,900.00	9,861.39	9,930.80	9,831.32	29.68	25.75	-102.46	152.43	-935.00	1,483.79	1,431.83	51.96	28.557	
10,000.00	9,961.39	10,070.98	9,971.48	29.73	25.96	-102.45	152.26	-936.94	1,485.45	1,433.28	52.17	28.472	
10,100.00	10,061.39	10,198.47	10,098.95	29.77	25.86	-102.40	154.16	-935.04	1,483.63	1,431.61	52.01	28.523	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Stag Fed Com - 504H - OH / 67941 - Surveys (H&P 625)												Offset Site Error:	1.00 usft
Survey Program: 241-MWD+HRGM												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,161.39	10,316.89	10,217.22	29.81	26.39	-102.48	152.93	-931.11	1,480.63	1,427.81	52.83	28.028	
10,300.00	10,261.39	10,406.37	10,305.07	29.85	27.81	-103.10	137.96	-924.34	1,476.93	1,422.27	54.67	27.018	
10,400.00	10,361.39	10,478.77	10,373.74	29.90	28.57	-103.98	116.15	-917.70	1,474.99	1,419.35	55.64	26.512	
10,433.38	10,394.77	10,501.58	10,394.77	29.91	28.60	-104.33	107.59	-915.44	1,474.85	1,419.11	55.74	26.461	
10,500.00	10,461.39	10,538.00	10,427.61	29.94	28.65	-104.94	92.30	-911.71	1,475.48	1,419.61	55.86	26.412	
10,600.00	10,561.39	10,587.81	10,471.05	29.98	28.70	-105.88	68.47	-906.83	1,479.49	1,423.41	56.08	26.384	
10,700.00	10,661.37	10,632.00	10,508.13	29.97	28.75	73.26	44.73	-903.11	1,487.46	1,431.24	56.22	26.460	
10,800.00	10,760.16	10,668.29	10,537.12	29.83	28.81	71.80	23.07	-900.42	1,495.81	1,439.63	56.18	26.626	
10,900.00	10,854.91	10,726.00	10,579.37	29.65	28.92	70.27	-16.00	-896.67	1,503.37	1,447.17	56.19	26.753	
11,000.00	10,942.73	10,726.00	10,579.37	29.46	28.92	69.73	-16.00	-896.67	1,509.07	1,453.41	55.66	27.112	
11,100.00	11,020.96	10,792.77	10,623.70	29.29	29.06	68.90	-65.83	-893.77	1,512.10	1,456.47	55.63	27.179	
11,200.00	11,087.23	10,821.00	10,641.46	29.15	29.13	68.73	-87.76	-893.18	1,513.08	1,457.87	55.22	27.403	
11,300.00	11,139.51	10,872.18	10,670.72	29.07	29.26	68.93	-129.71	-892.86	1,511.45	1,456.40	55.05	27.457	
11,400.00	11,176.22	10,915.00	10,691.39	29.07	29.36	69.48	-167.19	-893.23	1,507.91	1,453.09	54.81	27.511	
11,500.00	11,196.24	10,958.50	10,709.65	29.16	29.48	70.42	-206.66	-894.13	1,502.07	1,447.44	54.63	27.496	
11,600.00	11,200.00	11,009.00	10,728.52	29.36	29.62	71.55	-253.46	-895.74	1,494.15	1,439.58	54.58	27.378	
11,700.00	11,200.00	11,072.61	10,749.09	29.61	29.81	72.34	-313.59	-898.26	1,488.11	1,433.42	54.68	27.214	
11,800.00	11,200.00	11,103.00	10,757.76	29.90	29.91	72.68	-342.69	-899.56	1,485.23	1,430.76	54.47	27.267	
11,832.30	11,200.00	11,136.75	10,765.96	30.01	30.05	73.00	-375.38	-901.29	1,484.65	1,429.88	54.77	27.109	
11,832.30	11,200.00	11,136.75	10,765.96	30.01	30.05	73.00	-375.38	-901.29	1,484.65	1,429.88	54.77	27.109	
11,900.00	11,200.00	11,164.02	10,771.09	30.24	30.16	73.21	-402.10	-903.08	1,485.58	1,430.80	54.79	27.114	
12,000.00	11,200.00	11,309.22	10,783.96	30.62	30.91	73.77	-546.45	-909.86	1,488.68	1,432.30	56.38	26.407	
12,100.00	11,200.00	11,430.61	10,788.13	31.04	31.55	73.93	-667.76	-909.38	1,487.94	1,430.30	57.64	25.815	
12,200.00	11,200.00	11,527.89	10,791.91	31.51	32.11	74.06	-764.95	-908.20	1,486.27	1,427.55	58.72	25.313	
12,300.00	11,200.00	11,638.56	10,797.80	32.02	32.80	74.28	-875.46	-907.20	1,484.51	1,424.43	60.08	24.707	
12,400.00	11,200.00	11,749.58	10,803.40	32.58	33.55	74.47	-986.32	-904.96	1,481.76	1,420.19	61.57	24.067	
12,500.00	11,200.00	11,838.44	10,807.61	33.18	34.19	74.61	-1,075.07	-903.25	1,479.21	1,416.34	62.87	23.530	
12,600.00	11,200.00	11,928.28	10,810.91	33.84	34.87	74.73	-1,164.84	-902.02	1,477.47	1,413.20	64.27	22.990	
12,700.00	11,200.00	12,032.78	10,813.79	34.54	35.70	74.83	-1,269.28	-900.39	1,475.80	1,409.86	65.94	22.379	
12,800.00	11,200.00	12,132.01	10,815.60	35.28	36.53	74.88	-1,368.48	-898.50	1,474.05	1,406.42	67.63	21.795	
12,900.00	11,200.00	12,237.82	10,817.19	36.07	37.45	74.93	-1,474.25	-896.35	1,472.28	1,402.80	69.48	21.190	
13,000.00	11,200.00	12,351.04	10,818.79	36.90	38.47	74.96	-1,587.42	-893.03	1,469.64	1,398.15	71.49	20.556	
13,100.00	11,200.00	12,441.81	10,820.39	37.77	39.32	75.00	-1,678.12	-890.18	1,466.74	1,393.46	73.28	20.016	
13,200.00	11,200.00	12,516.09	10,821.31	38.68	40.03	75.02	-1,752.39	-888.70	1,465.10	1,390.19	74.91	19.559	
13,228.86	11,200.00	12,535.60	10,821.47	38.95	40.23	75.03	-1,771.89	-888.56	1,465.00	1,389.64	75.36	19.440	
13,300.00	11,200.00	12,585.95	10,821.71	39.62	40.73	75.04	-1,822.24	-888.74	1,465.55	1,389.04	76.51	19.154	
13,400.00	11,200.00	12,668.00	10,822.04	40.60	41.56	75.07	-1,904.28	-890.08	1,467.59	1,389.26	78.33	18.736	
13,500.00	11,200.00	12,795.91	10,822.17	41.60	42.88	75.10	-2,032.17	-891.39	1,469.08	1,388.24	80.84	18.173	
13,600.00	11,200.00	12,904.16	10,822.29	42.64	44.02	75.11	-2,140.43	-891.30	1,469.53	1,386.43	83.10	17.684	
13,700.00	11,200.00	13,007.55	10,822.82	43.70	45.12	75.13	-2,243.81	-890.83	1,469.53	1,384.19	85.34	17.221	
13,738.22	11,200.00	13,045.00	10,822.80	44.12	45.53	75.13	-2,281.26	-890.59	1,469.51	1,383.34	86.17	17.053	
13,800.00	11,200.00	13,094.82	10,822.71	44.79	46.08	75.12	-2,331.08	-890.47	1,469.75	1,382.36	87.39	16.818	
13,900.00	11,200.00	13,170.40	10,822.75	45.90	46.92	75.14	-2,406.66	-891.24	1,471.32	1,382.00	89.31	16.474	
14,000.00	11,200.00	13,242.75	10,822.74	47.03	47.74	75.16	-2,478.98	-893.43	1,474.78	1,383.58	91.21	16.170	
14,100.00	11,200.00	13,334.52	10,823.26	48.18	48.78	75.23	-2,570.65	-897.48	1,479.47	1,386.06	93.41	15.838	
14,200.00	11,200.00	13,454.59	10,823.86	49.35	50.17	75.30	-2,690.64	-901.95	1,483.48	1,387.42	96.06	15.443	
14,300.00	11,200.00	13,553.41	10,824.08	50.54	51.31	75.35	-2,789.40	-905.03	1,487.01	1,388.59	98.42	15.109	
14,400.00	11,200.00	13,656.13	10,824.38	51.74	52.52	75.40	-2,892.07	-908.40	1,490.68	1,389.83	100.85	14.781	
14,500.00	11,200.00	13,762.31	10,824.49	52.95	53.78	75.43	-2,998.22	-911.22	1,493.78	1,390.42	103.36	14.453	
14,600.00	11,200.00	13,900.84	10,824.07	54.18	55.45	75.45	-3,136.72	-913.26	1,495.99	1,389.67	106.32	14.071	
14,700.00	11,200.00	14,019.69	10,823.59	55.41	56.91	75.43	-3,255.56	-912.35	1,495.94	1,386.93	109.01	13.723	
14,800.00	11,200.00	14,125.71	10,823.99	56.66	58.21	75.43	-3,361.56	-910.30	1,494.52	1,382.97	111.55	13.398	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Offset Design: Big Stag Fed Com - 504H - OH / 67941 - Surveys (H&P 625)													Offset Site Error: 1.00 usft
Survey Program: 241-MWD+HRGM													Offset Well Error: 1.00 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,900.00	11,200.00	14,208.37	10,825.24	57.92	59.23	75.47	-3,444.21	-909.56	1,493.85	1,380.02	113.84	13.123	
14,905.58	11,200.00	14,212.91	10,825.31	58.00	59.28	75.47	-3,448.75	-909.55	1,493.85	1,379.89	113.97	13.108	
15,000.00	11,200.00	14,301.75	10,826.57	59.19	60.39	75.53	-3,537.58	-909.83	1,494.32	1,378.05	116.27	12.852	
15,100.00	11,200.00	14,414.96	10,827.07	60.47	61.81	75.54	-3,650.78	-908.87	1,493.92	1,374.96	118.96	12.558	
15,200.00	11,200.00	14,531.16	10,827.81	61.76	63.28	75.56	-3,766.98	-907.48	1,493.22	1,371.53	121.69	12.271	
15,300.00	11,200.00	14,616.11	10,827.84	63.05	64.37	75.55	-3,851.90	-905.74	1,491.84	1,367.78	124.06	12.025	
15,400.00	11,200.00	14,711.31	10,828.18	64.36	65.59	75.57	-3,947.10	-905.15	1,491.71	1,365.14	126.57	11.786	
15,500.00	11,200.00	14,817.19	10,828.82	65.66	66.94	75.59	-4,052.97	-904.14	1,491.21	1,362.00	129.21	11.541	
15,580.48	11,200.00	14,887.86	10,828.71	66.72	67.85	75.58	-4,123.63	-903.38	1,490.86	1,359.70	131.16	11.367	
15,600.00	11,200.00	14,904.08	10,828.60	66.98	68.06	75.58	-4,139.86	-903.28	1,490.89	1,359.26	131.62	11.327	
15,700.00	11,200.00	15,040.97	10,826.58	68.30	69.85	75.48	-4,276.70	-900.77	1,490.11	1,355.50	134.61	11.070	
15,800.00	11,200.00	15,120.00	10,825.03	69.62	70.88	75.41	-4,355.68	-898.48	1,488.42	1,351.45	136.96	10.867	
15,900.00	11,200.00	15,214.00	10,824.12	70.95	72.11	75.36	-4,449.66	-896.92	1,487.63	1,348.15	139.48	10.665	
16,000.00	11,200.00	15,323.72	10,823.71	72.29	73.55	75.34	-4,559.37	-895.42	1,486.98	1,344.79	142.19	10.457	
16,100.00	11,200.00	15,435.49	10,824.10	73.63	75.02	75.34	-4,671.11	-892.79	1,485.15	1,340.21	144.94	10.247	
16,200.00	11,200.00	15,522.15	10,824.95	74.97	76.16	75.36	-4,757.75	-891.26	1,483.75	1,336.32	147.43	10.064	
16,300.00	11,200.00	15,618.02	10,826.22	76.32	77.43	75.40	-4,853.61	-890.32	1,483.03	1,333.00	150.03	9.885	
16,400.00	11,200.00	15,723.11	10,827.24	77.67	78.83	75.43	-4,958.68	-888.86	1,482.01	1,329.27	152.74	9.703	
16,500.00	11,200.00	15,819.48	10,827.85	79.03	80.11	75.45	-5,055.04	-887.57	1,481.12	1,325.77	155.35	9.534	
16,600.00	11,200.00	15,923.03	10,828.89	80.39	81.50	75.48	-5,158.58	-886.32	1,480.27	1,322.21	158.06	9.365	
16,700.00	11,200.00	16,021.00	10,829.84	81.75	82.81	75.51	-5,256.53	-884.84	1,479.14	1,318.43	160.71	9.204	
16,800.00	11,200.00	16,134.93	10,831.07	83.11	84.34	75.54	-5,370.44	-883.26	1,478.13	1,314.60	163.53	9.039	
16,900.00	11,200.00	16,229.73	10,831.97	84.48	85.62	75.56	-5,465.22	-881.05	1,476.23	1,310.06	166.16	8.884	
17,000.00	11,200.00	16,330.10	10,832.92	85.85	86.98	75.59	-5,565.56	-879.26	1,474.83	1,305.98	168.85	8.734	
17,100.00	11,200.00	16,417.33	10,833.69	87.22	88.16	75.61	-5,652.78	-877.86	1,473.65	1,302.24	171.41	8.597	
17,200.00	11,200.00	16,512.60	10,834.56	88.60	89.45	75.64	-5,748.04	-877.14	1,473.25	1,299.20	174.05	8.464	
17,300.00	11,200.00	16,616.59	10,836.10	89.98	90.86	75.69	-5,852.01	-876.45	1,472.81	1,296.00	176.81	8.330	
17,400.00	11,200.00	16,707.69	10,836.30	91.36	92.10	75.70	-5,943.11	-875.62	1,472.44	1,293.04	179.40	8.207	
17,500.00	11,200.00	16,810.47	10,835.17	92.74	93.50	75.65	-6,045.87	-874.70	1,472.42	1,290.31	182.11	8.085	
17,600.00	11,200.00	16,918.29	10,836.00	94.12	94.97	75.68	-6,153.69	-873.74	1,471.94	1,287.02	184.91	7.960	
17,700.00	11,200.00	17,013.23	10,837.00	95.51	96.27	75.72	-6,248.62	-872.94	1,471.43	1,283.85	187.58	7.844	
17,800.00	11,200.00	17,128.34	10,838.11	96.90	97.84	75.75	-6,363.72	-871.51	1,470.56	1,280.09	190.47	7.721	
17,900.00	11,200.00	17,217.56	10,839.26	98.29	99.07	75.78	-6,452.90	-869.74	1,468.96	1,275.87	193.08	7.608	
18,000.00	11,200.00	17,319.52	10,839.28	99.68	100.47	75.78	-6,554.86	-868.61	1,468.45	1,272.63	195.82	7.499	
18,017.27	11,200.00	17,327.00	10,839.35	99.92	100.57	75.78	-6,562.34	-868.52	1,468.34	1,272.16	196.18	7.485	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3819.50usft (H&P 625)

Offset Depths are relative to Offset Datum

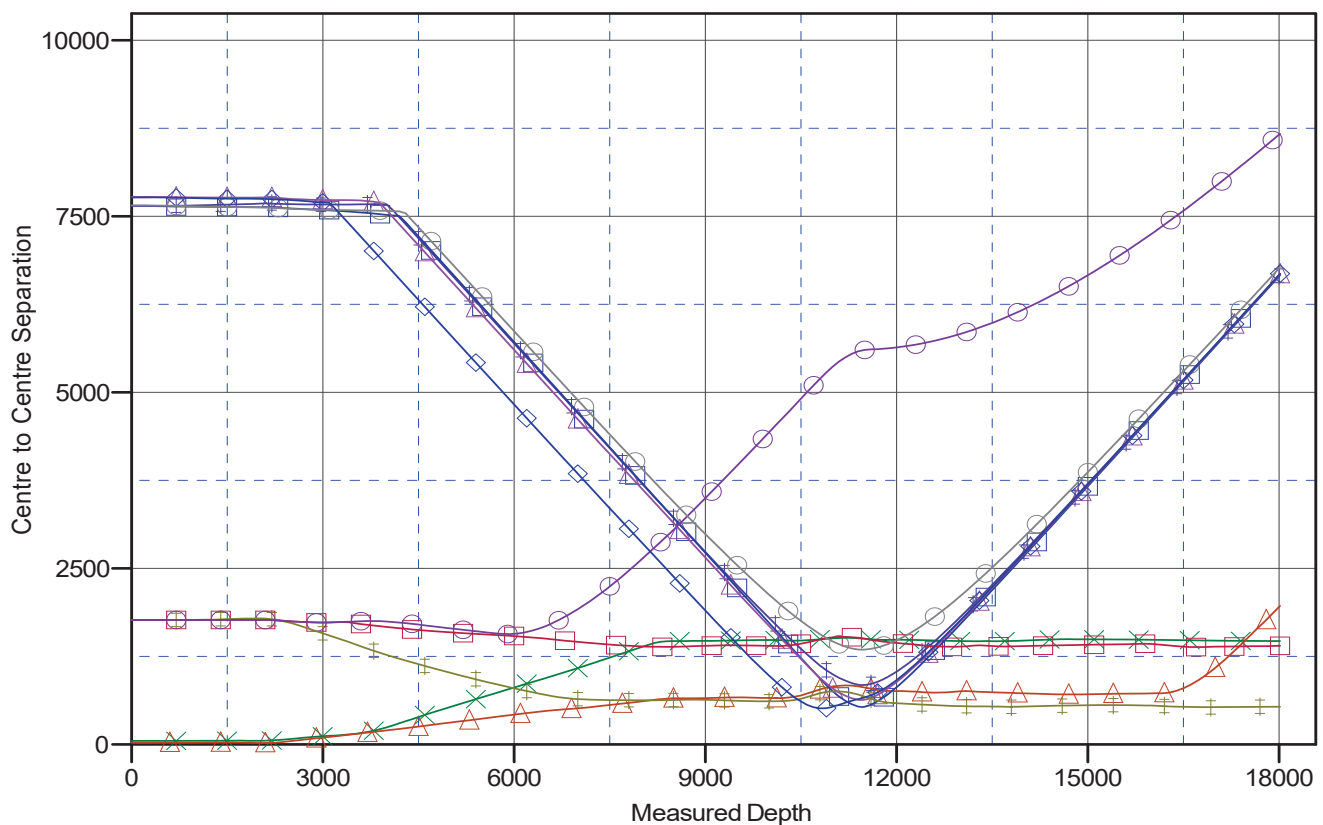
Central Meridian is -104.333334

Coordinates are relative to: 703H

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

Grid Convergence at Surface is: 0.38°

Ladder Plot



LEGEND

504H, OH / 6741, Surveys (H&P 625) V0	Minis 1 Red 3BS 7H, OH, Surveys V0	Minis Fed Com WCA 16H, OH, Surveys V0
503H, OH / 6740, Surveys (H&P 625) V0	502H, OH / 6752, Surveys (H&P 625) V0	Minis 1 Red Com 2BS 11H, OH, Surveys V0
Minis 1 Red Com 3BS 6H, OH, Surveys V0	501H, ST01 / 6750, Surveys (H&P 625) V0	
Minis 1 Red Com WCA 10H, OH, Surveys V0	501H, OH / 6750, Surveys (H&P 625) V0	

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



Anticollision Report



Company:	Ascent Energy	Local Co-ordinate Reference:	Well 703H
Project:	Lea County, New Mexico (NAD83)	TVD Reference:	RKB @ 3819.50usft (H&P 625)
Reference Site:	Big Stag Fed Com	MD Reference:	RKB @ 3819.50usft (H&P 625)
Site Error:	1.00 usft	North Reference:	Grid
Reference Well:	703H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH / 68166	Database:	USA Compass
Reference Design:	Plan 1 07-22-21	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3819.50usft (H&P 625)

Offset Depths are relative to Offset Datum

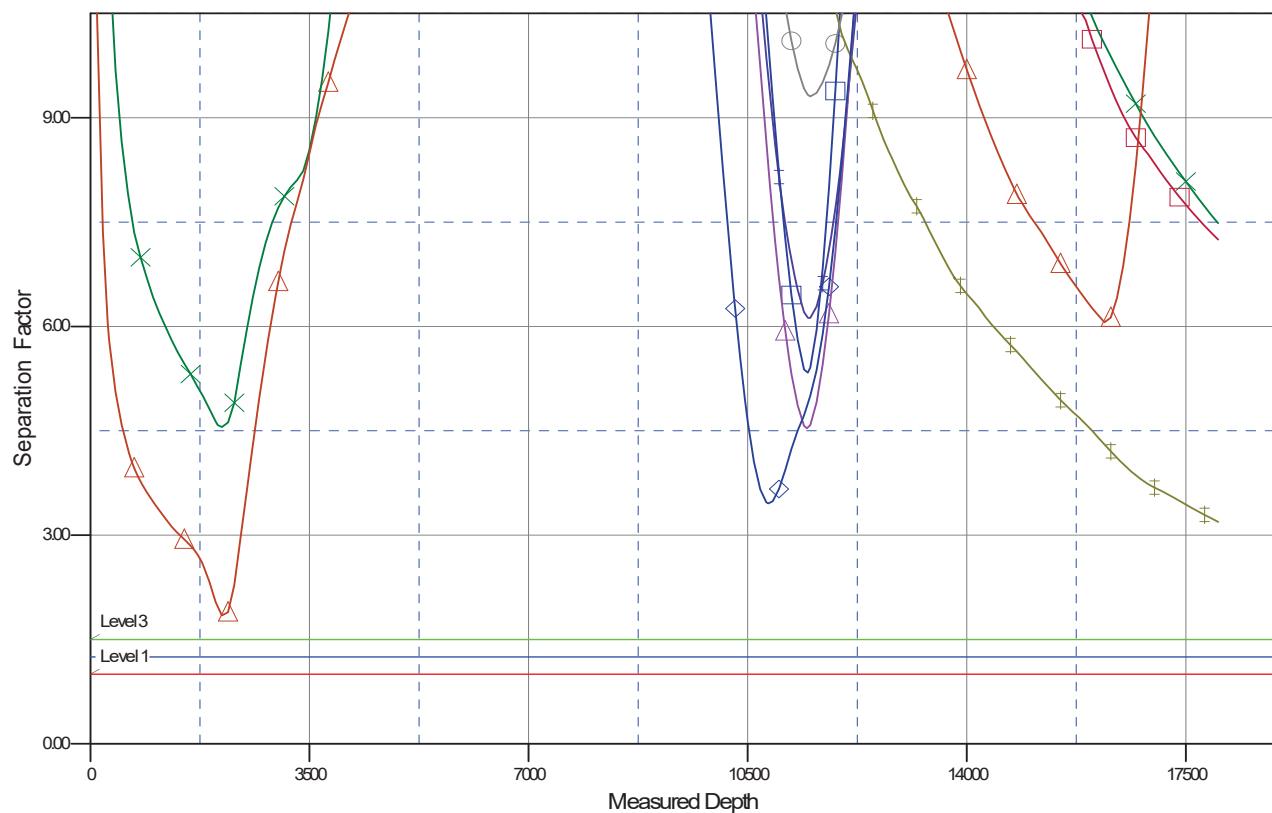
Central Meridian is -104.333334

Coordinates are relative to: 703H

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

Grid Convergence at Surface is: 0.38°

Separation Factor Plot



LEGEND

504H, OH / 67041, Surveys (H&P 625) V0	Minis 1 Red 3BS 7H, OH, Surveys V0	Minis Fed Com WCA 16H, OH, Surveys V0
503H, OH / 67040, Surveys (H&P 625) V0	502H, OH / 67652, Surveys (H&P 625) V0	Minis 1 Red Com 2BS 11H, OH, Surveys V0
Minis 1 Red Com 3BS 6H, OH, Surveys V0	501H, ST01 / 67650, Surveys (H&P 625) V0	
Minis 1 Red Com WCA 10H, OH, Surveys V0	501H, OH / 67650, Surveys (H&P 625) V0	

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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District III
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 51737

CONDITIONS

Operator: ASCENT ENERGY, LLC. 1125 17th St Denver, CO 80202	OGRID: 325830
	Action Number: 51737
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	10/8/2021