Well Name: GAVILON FED COM

Well Location: T20S / R33E / SEC 33 / SWSW / 32.522694 / -103.674418

County or Parish/State: LEA / NM

Well Number: 503H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM057683, NMNM57683

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002546584

Well Status: Approved Application for Permit to Drill

Operator: ASCENT ENERGY LLC

Notice of Intent

Sundry ID: 2641905

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 10/27/2021

Time Sundry Submitted: 03:58

Date proposed operation will begin: 11/07/2021

Procedure Description: Ascent Energy respectfully requests to amend the surface hole location of the Gavilon Fed Com 503H. The current SHL is 155’ FSL, 767’ FWL. The new requested SHL is 130’ FSL, 767’ FWL. This requested change is located within the current well pad boundaries and there will be no additional surface disturbance. Please see attached revised C102

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

2018010120_ASCENT_GAVILON_503H_C_102_FINAL_10_25_2021_signed_20211027155742.pdf

CONFIDENTIAL

Released to Imaging: 11/8/2021 8:15:11 AM

Well Name: GAVILON FED COM

Well Location: T20S / R33E / SEC 33 / SWSW / 32.522694 / -103.674418

County or Parish/State: LEA / NM

Well Number: 503H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM057683, NMNM57683

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002546584

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: OCT 27, 2021 03:57 PM

Name: ASCENT ENERGY LLC

Title: Vice President Exploration

Street Address: PO BOX 270983

City: LITTLETON **State:** 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: Cody Layton

BLM POC Title: Assistant Field Manager Lands & Minerals

BLM POC Phone: 5752345959

BLM POC Email Address: clayton@blm.gov

Disposition: Approved

Disposition Date: 11/05/2021

Signature: Cody R. Layton

Released to Imaging: 11/8/2021 8:15:11 AM

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos 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	[2] Pool Code	[3] Pool Name
30-025 -46584	30213	HAT MESA; BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
326516	GAVILON FED COM	503H

[7] OGRID No.	[8] Operator Name	[9] Elevation
325830	ASCENT ENERGY, LLC.	3,661'

[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
M	33	20 S	33 E		130	SOUTH	767	WEST	LEA

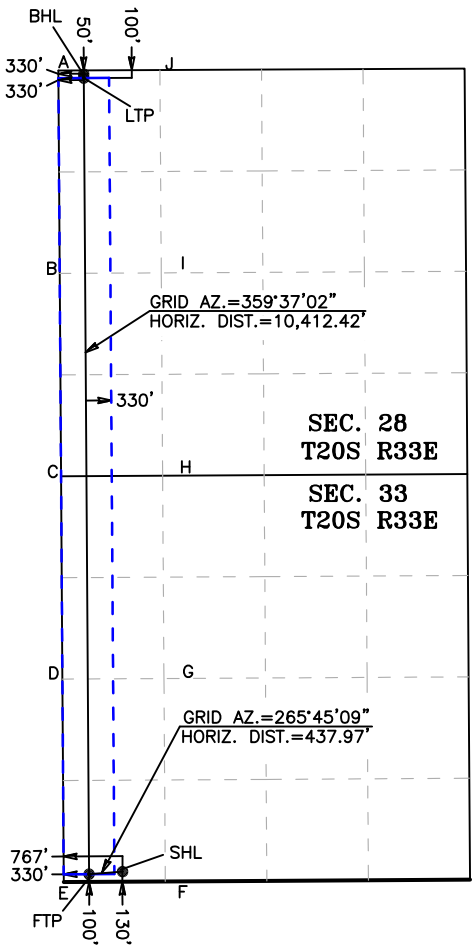
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	20 S	33 E		50	NORTH	330	WEST	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.

[16]



SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	554,519.8	Y =	564,849.6
X =	744,453.0	X =	743,947.0
LAT. =	32.522708 °N	LAT. =	32.551109 °N
LONG. =	103.674337 °W	LONG. =	103.675772 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	554,487.4	Y =	564,899.6
X =	744,016.2	X =	743,946.7
LAT. =	32.522626 °N	LAT. =	32.551246 °N
LONG. =	103.675755 °W	LONG. =	103.675772 °W

CORNER COORDINATES (NAD83 NME)

A - Y =	564,948.1 N ,	X =	743,616.3 E
B - Y =	562,307.0 N ,	X =	743,634.1 E
C - Y =	559,665.9 N ,	X =	743,652.0 E
D - Y =	557,026.4 N ,	X =	743,669.6 E
E - Y =	554,385.5 N ,	X =	743,686.9 E
F - Y =	554,393.0 N ,	X =	745,009.1 E
G - Y =	557,033.7 N ,	X =	744,991.7 E
H - Y =	559,673.1 N ,	X =	744,974.2 E
I - Y =	562,313.8 N ,	X =	744,956.5 E
J - Y =	564,954.1 N ,	X =	744,938.9 E

SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	554,458.7	Y =	564,788.3
X =	703,272.3	X =	702,766.7
LAT. =	32.522587 °N	LAT. =	32.550989 °N
LONG. =	103.673843 °W	LONG. =	103.675277 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	554,426.3	Y =	564,838.3
X =	702,835.6	X =	702,766.3
LAT. =	32.522506 °N	LAT. =	32.551126 °N
LONG. =	103.675261 °W	LONG. =	103.675277 °W

CORNER COORDINATES (NAD27 NME)

A - Y =	564,886.8 N ,	X =	702,436.0 E
B - Y =	562,245.7 N ,	X =	702,453.7 E
C - Y =	559,604.6 N ,	X =	702,471.5 E
D - Y =	556,965.2 N ,	X =	702,489.0 E
E - Y =	554,324.4 N ,	X =	702,506.2 E
F - Y =	554,331.9 N ,	X =	703,828.4 E
G - Y =	556,972.5 N ,	X =	703,811.1 E
H - Y =	559,611.9 N ,	X =	703,793.7 E
I - Y =	562,252.5 N ,	X =	703,776.1 E
J - Y =	564,892.8 N ,	X =	703,758.5 E

[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.

W Ben Metz — Signature — 10-27-2021 — 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.

10-25-2021 — Date of Survey

Signatue and Seal of Professional Surveyor:

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786 — Certificate Number — RR — 2018010120

C:\Users\...\20-ASCENT-GAVILON_503H_LEA_C102.dwg, Adobe PDF

ASCENT ENERGY

LEA COUNTY, NEW MEXICO (NAD 83) (GRID)
SEC. 33 T20S R33E N.M.P.M. (GRID)
GAVILON FED COM 503H

ORIGINAL WELLBORE
PROPOSAL #3

Anticollision Report

27 October, 2021

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Reference	PROPOSAL #3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 9,999.98usft	**Error Surface:**	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 2021-10-27

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	20,875.64	PROPOSAL #3 (ORIGINAL WELLBORE)	OWSG (Rev2) MWD	OWSG MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC. 33 T20S R33E N.M.P.M. (GRID)						
EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - De	12,341.36	10,448.51	326.71	68.96	1.268	Level 3, CC, ES, SF
EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 2	17,283.36	10,388.77	4,297.99	3,902.72	10.874	CC
EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 2	17,300.00	10,388.69	4,298.02	3,902.52	10.867	ES
EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 2	17,800.00	10,386.20	4,328.93	3,927.02	10.771	SF
EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #	19,266.42	10,370.44	1,646.75	1,288.43	4.596	CC
EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #	19,300.00	10,370.27	1,647.09	1,288.38	4.592	ES, SF
GAVILON FED COM 301H - ORIGINAL WELLBORE - P	2,200.00	2,214.00	2,871.71	2,856.34	186.769	CC, ES
GAVILON FED COM 301H - ORIGINAL WELLBORE - P	20,875.64	19,261.87	3,647.18	3,326.04	11.357	SF
GAVILON FED COM 302H - ORIGINAL WELLBORE - P	8,305.96	8,348.79	2,650.11	2,590.89	44.750	CC
GAVILON FED COM 302H - ORIGINAL WELLBORE - P	8,500.00	8,531.81	2,650.36	2,589.91	43.848	ES
GAVILON FED COM 302H - ORIGINAL WELLBORE - P	20,875.64	19,285.44	3,070.61	2,763.54	10.000	SF
GAVILON FED COM 303H - ORIGINAL WELLBORE - P	2,000.00	2,000.00	24.90	11.01	1.792	CC
GAVILON FED COM 303H - ORIGINAL WELLBORE - P	8,306.20	8,301.71	50.00	-9.63	0.839	Level 3, ES, SF
GAVILON FED COM 304H - ORIGINAL WELLBORE - P	2,200.00	2,200.00	255.10	239.78	16.645	CC, ES
GAVILON FED COM 304H - ORIGINAL WELLBORE - P	20,875.64	19,220.64	1,666.30	1,465.95	8.317	SF
GAVILON FED COM 305H - ORIGINAL WELLBORE - P	2,701.60	2,927.10	1,266.91	1,247.62	65.705	CC, ES
GAVILON FED COM 305H - ORIGINAL WELLBORE - P	20,875.64	19,249.63	2,020.79	1,769.38	8.038	SF
GAVILON FED COM 306H - ORIGINAL WELLBORE - P	1,912.96	1,922.96	1,328.05	1,314.75	99.827	CC
GAVILON FED COM 306H - ORIGINAL WELLBORE - P	2,000.00	2,008.54	1,328.06	1,314.14	95.401	ES
GAVILON FED COM 306H - ORIGINAL WELLBORE - P	20,875.64	19,244.74	2,502.38	2,212.91	8.644	SF
GAVILON FED COM 401H - ORIGINAL WELLBORE - P	2,200.00	2,200.00	251.32	236.00	16.398	CC, ES
GAVILON FED COM 401H - ORIGINAL WELLBORE - P	20,875.64	19,925.02	1,060.46	821.31	4.434	SF
GAVILON FED COM 402H - ORIGINAL WELLBORE - P	2,112.96	2,122.96	1,303.58	1,288.85	88.454	CC
GAVILON FED COM 402H - ORIGINAL WELLBORE - P	2,200.00	2,209.30	1,303.59	1,288.23	84.884	ES
GAVILON FED COM 402H - ORIGINAL WELLBORE - P	20,875.64	19,966.82	2,143.23	1,816.82	6.566	SF
GAVILON FED COM 403H - ORIGINAL WELLBORE - P	2,111.24	2,125.24	2,856.85	2,842.11	193.824	CC
GAVILON FED COM 403H - ORIGINAL WELLBORE - P	2,200.00	2,213.65	2,856.85	2,841.48	185.849	ES
GAVILON FED COM 403H - ORIGINAL WELLBORE - P	20,875.64	19,934.24	3,415.64	3,074.41	10.010	SF
GAVILON FED COM 501H - ORIGINAL WELLBORE - P	1,911.24	1,925.24	2,831.87	2,818.57	212.835	CC
GAVILON FED COM 501H - ORIGINAL WELLBORE - P	2,200.00	2,200.00	2,832.55	2,817.28	185.472	ES
GAVILON FED COM 501H - ORIGINAL WELLBORE - P	20,875.64	20,919.83	3,311.28	2,959.81	9.421	SF
GAVILON FED COM 502H - ORIGINAL WELLBORE - P	9,924.12	9,969.02	2,484.77	2,414.65	35.439	CC
GAVILON FED COM 502H - ORIGINAL WELLBORE - P	20,875.64	20,814.70	2,486.30	2,136.08	7.099	ES, SF
GAVILON FED COM 504H - ORIGINAL WELLBORE - P	2,200.00	2,200.00	25.10	9.78	1.638	CC, ES, SF
GAVILON FED COM 505H - ORIGINAL WELLBORE - P	2,200.00	2,210.00	1,284.36	1,269.00	83.610	CC, ES
GAVILON FED COM 505H - ORIGINAL WELLBORE - P	20,875.64	20,888.62	1,650.61	1,298.30	4.685	SF

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC. 33 T20S R33E N.M.P.M. (GRID)						
GAVILON FED COM 601H - ORIGINAL WELLBORE - P	9,955.59	9,987.32	2,649.68	2,579.46	37.736	CC
GAVILON FED COM 601H - ORIGINAL WELLBORE - P	20,875.64	21,804.32	2,817.48	2,481.72	8.391	ES, SF
GAVILON FED COM 602H - ORIGINAL WELLBORE - P	2,207.35	2,207.64	49.22	33.90	3.212	CC
GAVILON FED COM 602H - ORIGINAL WELLBORE - P	4,221.50	4,232.27	50.21	21.01	1.720	ES
GAVILON FED COM 602H - ORIGINAL WELLBORE - P	10,200.00	10,186.21	105.55	34.13	1.478	Level 3, SF
GAVILON FED COM 603H - ORIGINAL WELLBORE - P	2,751.59	2,972.96	1,183.20	1,163.54	60.190	CC, ES
GAVILON FED COM 603H - ORIGINAL WELLBORE - P	20,875.64	21,742.53	1,623.48	1,325.55	5.449	SF
GAVILON FED COM 701H - ORIGINAL WELLBORE - P	9,955.59	9,980.09	2,756.07	2,685.91	39.279	CC
GAVILON FED COM 701H - ORIGINAL WELLBORE - P	20,875.64	22,109.64	2,911.73	2,583.93	8.883	ES, SF
GAVILON FED COM 702H - ORIGINAL WELLBORE - P	2,200.00	2,214.00	2,846.87	2,831.49	185.153	CC, ES
GAVILON FED COM 702H - ORIGINAL WELLBORE - P	20,875.64	21,918.92	3,461.37	3,123.25	10.237	SF
GAVILON FED COM 703H - ORIGINAL WELLBORE - P	9,955.59	9,969.24	105.19	34.86	1.496	Level 3, CC
GAVILON FED COM 703H - ORIGINAL WELLBORE - P	10,050.00	10,063.22	105.53	34.40	1.484	Level 3, ES, SF
GAVILON FED COM 704H - ORIGINAL WELLBORE - P	2,000.00	2,000.00	75.00	61.11	5.399	CC, ES
GAVILON FED COM 704H - ORIGINAL WELLBORE - P	20,875.64	21,820.90	1,189.86	960.36	5.185	SF
GAVILON FED COM 705H - ORIGINAL WELLBORE - P	2,701.50	2,911.52	1,249.47	1,230.21	64.861	CC, ES
GAVILON FED COM 705H - ORIGINAL WELLBORE - P	20,875.64	22,056.21	1,780.65	1,501.03	6.368	SF
GAVILON FED COM 706H - ORIGINAL WELLBORE - P	1,912.96	1,922.96	1,309.36	1,296.05	98.422	CC
GAVILON FED COM 706H - ORIGINAL WELLBORE - P	2,000.00	2,000.00	1,309.40	1,295.50	94.260	ES
GAVILON FED COM 706H - ORIGINAL WELLBORE - P	20,875.64	21,862.35	2,218.34	1,897.15	6.907	SF

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference 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
0.00	0.00	0.00	0.00	0.00	0.00	-3.80	1,848.40	-122.68	1,852.65				
100.00	100.00	74.00	74.00	0.14	0.83	-3.80	1,848.40	-122.68	1,852.47	1,851.50	0.96	1,923.849	
200.00	200.00	174.00	174.00	0.49	2.83	-3.80	1,848.40	-122.68	1,852.47	1,849.15	3.32	558.003	
300.00	300.00	274.00	274.00	0.85	4.96	-3.80	1,848.40	-122.68	1,852.47	1,846.65	5.82	318.446	
400.00	400.00	374.00	374.00	1.21	7.02	-3.80	1,848.40	-122.68	1,852.47	1,844.24	8.23	225.146	
500.00	500.00	474.00	474.00	1.57	9.05	-3.80	1,848.40	-122.68	1,852.47	1,841.85	10.62	174.449	
600.00	600.00	574.00	574.00	1.93	11.07	-3.80	1,848.40	-122.68	1,852.47	1,839.46	13.00	142.477	
700.00	700.00	674.00	674.00	2.29	13.09	-3.80	1,848.40	-122.68	1,852.47	1,837.09	15.38	120.442	
800.00	800.00	774.00	774.00	2.64	15.11	-3.80	1,848.40	-122.68	1,852.47	1,834.71	17.76	104.325	
900.00	900.00	874.00	874.00	3.00	17.13	-3.80	1,848.40	-122.68	1,852.47	1,832.33	20.13	92.019	
1,000.00	1,000.00	974.00	974.00	3.36	19.14	-3.80	1,848.40	-122.68	1,852.47	1,829.96	22.50	82.314	
1,100.00	1,100.00	1,074.00	1,074.00	3.72	21.16	-3.80	1,848.40	-122.68	1,852.47	1,827.59	24.88	74.464	
1,200.00	1,200.00	1,174.00	1,174.00	4.08	23.17	-3.80	1,848.40	-122.68	1,852.47	1,825.22	27.25	67.982	
1,300.00	1,300.00	1,274.00	1,274.00	4.44	25.18	-3.80	1,848.40	-122.68	1,852.47	1,822.84	29.62	62.538	
1,400.00	1,400.00	1,374.00	1,374.00	4.80	27.20	-3.80	1,848.40	-122.68	1,852.47	1,820.47	31.99	57.903	
1,500.00	1,500.00	1,474.00	1,474.00	5.15	29.21	-3.80	1,848.40	-122.68	1,852.47	1,818.10	34.36	53.908	
1,600.00	1,600.00	1,574.00	1,574.00	5.51	31.22	-3.80	1,848.40	-122.68	1,852.47	1,815.73	36.73	50.428	
1,700.00	1,700.00	1,674.00	1,674.00	5.87	33.23	-3.80	1,848.40	-122.68	1,852.47	1,813.36	39.11	47.371	
1,800.00	1,800.00	1,774.00	1,774.00	6.23	35.25	-3.80	1,848.40	-122.68	1,852.47	1,810.99	41.48	44.664	
1,900.00	1,900.00	1,874.00	1,874.00	6.59	37.26	-3.80	1,848.40	-122.68	1,852.47	1,808.62	43.85	42.249	
2,000.00	2,000.00	1,974.00	1,974.00	6.95	39.27	-3.80	1,848.40	-122.68	1,852.47	1,806.25	46.22	40.082	
2,100.00	2,100.00	2,074.00	2,074.00	7.30	41.28	-3.80	1,848.40	-122.68	1,852.47	1,803.88	48.59	38.127	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,200.00	2,200.00	2,174.00	2,174.00	7.66	43.29	-3.80	1,848.40	-122.68	1,852.47	1,801.51	50.96	36.354	
2,300.00	2,299.98	2,273.98	2,273.98	8.01	45.30	112.23	1,848.40	-122.68	1,853.13	1,799.81	53.31	34.759	
2,400.00	2,399.84	2,373.84	2,373.84	8.34	47.31	112.35	1,848.40	-122.68	1,855.11	1,799.46	55.66	33.331	
2,500.00	2,499.45	2,473.45	2,473.45	8.68	49.32	112.53	1,848.40	-122.68	1,858.45	1,800.45	58.00	32.042	
2,600.00	2,598.70	2,572.70	2,572.70	9.03	51.31	112.79	1,848.40	-122.68	1,863.18	1,802.83	60.34	30.877	
2,700.00	2,697.47	2,671.47	2,671.47	9.38	53.30	113.11	1,848.40	-122.68	1,869.34	1,806.66	62.68	29.823	
2,800.00	2,795.62	2,769.62	2,769.62	9.75	55.27	113.50	1,848.40	-122.68	1,877.01	1,811.99	65.02	28.870	
2,900.00	2,893.44	2,867.44	2,867.44	10.13	57.24	114.07	1,848.40	-122.68	1,885.55	1,818.19	67.36	27.994	
3,000.00	2,991.25	2,965.25	2,965.25	10.51	59.21	114.63	1,848.40	-122.68	1,894.28	1,824.58	69.70	27.177	
3,100.00	3,089.07	3,063.07	3,063.07	10.91	61.18	115.19	1,848.40	-122.68	1,903.20	1,831.14	72.05	26.413	
3,200.00	3,186.88	3,160.88	3,160.88	11.31	63.14	115.74	1,848.40	-122.68	1,912.30	1,837.89	74.41	25.699	
3,300.00	3,284.70	3,258.70	3,258.70	11.72	65.11	116.29	1,848.40	-122.68	1,921.58	1,844.81	76.78	25.028	
3,400.00	3,382.51	3,356.51	3,356.51	12.14	67.08	116.84	1,848.40	-122.68	1,931.04	1,851.90	79.14	24.399	
3,500.00	3,480.33	3,454.33	3,454.33	12.56	69.05	117.37	1,848.40	-122.68	1,940.68	1,859.17	81.52	23.807	
3,600.00	3,578.14	3,552.14	3,552.14	12.99	71.01	117.91	1,848.40	-122.68	1,950.50	1,866.61	83.89	23.251	
3,700.00	3,675.96	3,649.96	3,649.96	13.42	72.98	118.43	1,848.40	-122.68	1,960.48	1,874.21	86.27	22.726	
3,800.00	3,773.77	3,747.77	3,747.77	13.86	74.95	118.96	1,848.40	-122.68	1,970.64	1,881.99	88.65	22.230	
3,900.00	3,871.59	3,845.59	3,845.59	14.30	76.91	119.47	1,848.40	-122.68	1,980.96	1,889.93	91.03	21.762	
4,000.00	3,969.40	3,943.40	3,943.40	14.75	78.88	119.99	1,848.40	-122.68	1,991.44	1,898.03	93.41	21.319	
4,100.00	4,067.22	4,041.22	4,041.22	15.19	80.85	120.49	1,848.40	-122.68	2,002.08	1,906.29	95.80	20.899	
4,200.00	4,165.03	4,139.03	4,139.03	15.64	82.82	121.00	1,848.40	-122.68	2,012.89	1,914.70	98.18	20.502	
4,300.00	4,262.84	4,236.84	4,236.84	16.10	84.78	121.49	1,848.40	-122.68	2,023.84	1,923.28	100.57	20.124	
4,400.00	4,360.66	4,334.66	4,334.66	16.55	86.75	121.98	1,848.40	-122.68	2,034.96	1,932.00	102.95	19.766	
4,500.00	4,458.47	4,432.47	4,432.47	17.01	88.72	122.47	1,848.40	-122.68	2,046.22	1,940.88	105.34	19.425	
4,529.32	4,487.15	4,461.15	4,461.15	17.14	89.29	122.61	1,848.40	-122.68	2,049.55	1,943.51	106.04	19.328	
4,600.00	4,556.46	4,530.46	4,530.46	17.46	90.69	123.06	1,848.40	-122.68	2,057.16	1,949.43	107.73	19.096	
4,700.00	4,655.06	4,629.06	4,629.06	17.90	92.67	123.60	1,848.40	-122.68	2,066.40	1,956.29	110.11	18.766	
4,800.00	4,754.18	4,728.18	4,728.18	18.31	94.66	124.02	1,848.40	-122.68	2,073.79	1,961.30	112.49	18.435	
4,900.00	4,853.70	4,827.70	4,827.70	18.69	96.67	124.34	1,848.40	-122.68	2,079.28	1,964.41	114.86	18.102	
5,000.00	4,953.50	4,927.50	4,927.50	19.05	98.67	124.54	1,848.40	-122.68	2,082.82	1,965.59	117.23	17.767	
5,100.00	5,053.46	5,027.46	5,027.46	19.39	100.68	124.62	1,848.40	-122.68	2,084.39	1,964.82	119.58	17.431	
5,129.32	5,082.78	5,056.78	5,056.78	19.49	101.27	8.64	1,848.40	-122.68	2,084.48	1,964.21	120.26	17.333	
5,200.00	5,153.46	5,127.46	5,127.46	19.71	102.69	8.64	1,848.40	-122.68	2,084.48	1,962.56	121.92	17.098	
5,300.00	5,253.46	5,227.46	5,227.46	20.04	104.71	8.64	1,848.40	-122.68	2,084.48	1,960.22	124.25	16.776	
5,400.00	5,353.46	5,327.46	5,327.46	20.36	106.72	8.64	1,848.40	-122.68	2,084.48	1,957.88	126.60	16.466	
5,500.00	5,453.46	5,427.46	5,427.46	20.68	108.73	8.64	1,848.40	-122.68	2,084.48	1,955.54	128.94	16.167	
5,600.00	5,553.46	5,527.46	5,527.46	21.00	110.74	8.64	1,848.40	-122.68	2,084.48	1,953.20	131.28	15.878	
5,700.00	5,653.46	5,627.46	5,627.46	21.33	112.75	8.64	1,848.40	-122.68	2,084.48	1,950.86	133.62	15.600	
5,800.00	5,753.46	5,727.46	5,727.46	21.65	114.76	8.64	1,848.40	-122.68	2,084.48	1,948.51	135.97	15.331	
5,900.00	5,853.46	5,827.46	5,827.46	21.98	116.77	8.64	1,848.40	-122.68	2,084.48	1,946.17	138.31	15.071	
6,000.00	5,953.46	5,927.46	5,927.46	22.31	118.78	8.64	1,848.40	-122.68	2,084.48	1,943.82	140.66	14.820	
6,100.00	6,053.46	6,027.46	6,027.46	22.64	120.79	8.64	1,848.40	-122.68	2,084.48	1,941.48	143.00	14.577	
6,200.00	6,153.46	6,127.46	6,127.46	22.97	122.80	8.64	1,848.40	-122.68	2,084.48	1,939.13	145.35	14.341	
6,300.00	6,253.46	6,227.46	6,227.46	23.30	124.82	8.64	1,848.40	-122.68	2,084.48	1,936.78	147.70	14.113	
6,400.00	6,353.46	6,327.46	6,327.46	23.63	126.83	8.64	1,848.40	-122.68	2,084.48	1,934.43	150.05	13.892	
6,500.00	6,453.46	6,427.46	6,427.46	23.96	128.84	8.64	1,848.40	-122.68	2,084.48	1,932.08	152.39	13.678	
6,600.00	6,553.46	6,527.46	6,527.46	24.30	130.85	8.64	1,848.40	-122.68	2,084.48	1,929.73	154.74	13.470	
6,700.00	6,653.46	6,627.46	6,627.46	24.63	132.86	8.64	1,848.40	-122.68	2,084.48	1,927.38	157.09	13.269	
6,800.00	6,753.46	6,727.46	6,727.46	24.96	134.87	8.64	1,848.40	-122.68	2,084.48	1,925.03	159.44	13.073	
6,900.00	6,853.46	6,827.46	6,827.46	25.30	136.88	8.64	1,848.40	-122.68	2,084.48	1,922.68	161.80	12.883	
7,000.00	6,953.46	6,927.46	6,927.46	25.64	138.89	8.64	1,848.40	-122.68	2,084.48	1,920.33	164.15	12.699	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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
7,100.00	7,053.46	7,027.46	7,027.46	25.97	140.90	8.64	1,848.40	-122.68	2,084.48	1,917.98	166.50	12.519	
7,200.00	7,153.46	7,127.46	7,127.46	26.31	142.92	8.64	1,848.40	-122.68	2,084.48	1,915.62	168.85	12.345	
7,300.00	7,253.46	7,227.46	7,227.46	26.65	144.93	8.64	1,848.40	-122.68	2,084.48	1,913.27	171.21	12.175	
7,400.00	7,353.46	7,327.46	7,327.46	26.98	146.94	8.64	1,848.40	-122.68	2,084.48	1,910.92	173.56	12.010	
7,500.00	7,453.46	7,427.46	7,427.46	27.32	148.95	8.64	1,848.40	-122.68	2,084.48	1,908.56	175.91	11.849	
7,600.00	7,553.46	7,527.46	7,527.46	27.66	150.96	8.64	1,848.40	-122.68	2,084.48	1,906.21	178.27	11.693	
7,700.00	7,653.46	7,627.46	7,627.46	28.00	152.97	8.64	1,848.40	-122.68	2,084.48	1,903.86	180.62	11.541	
7,800.00	7,753.46	7,727.46	7,727.46	28.34	154.98	8.64	1,848.40	-122.68	2,084.48	1,901.50	182.98	11.392	
7,900.00	7,853.46	7,827.46	7,827.46	28.68	156.99	8.64	1,848.40	-122.68	2,084.48	1,899.14	185.33	11.247	
8,000.00	7,953.46	7,927.46	7,927.46	29.02	159.00	8.64	1,848.40	-122.68	2,084.48	1,896.79	187.69	11.106	
8,100.00	8,053.46	8,027.46	8,027.46	29.36	161.01	8.64	1,848.40	-122.68	2,084.48	1,894.43	190.04	10.968	
8,200.00	8,153.46	8,127.46	8,127.46	29.71	163.03	8.64	1,848.40	-122.68	2,084.48	1,892.08	192.40	10.834	
8,300.00	8,253.46	8,227.46	8,227.46	30.05	165.04	8.64	1,848.40	-122.68	2,084.48	1,889.72	194.76	10.703	
8,400.00	8,353.46	8,327.46	8,327.46	30.39	167.05	8.64	1,848.40	-122.68	2,084.48	1,887.36	197.12	10.575	
8,500.00	8,453.46	8,427.46	8,427.46	30.73	169.06	8.64	1,848.40	-122.68	2,084.48	1,885.00	199.47	10.450	
8,600.00	8,553.46	8,527.46	8,527.46	31.08	171.07	8.64	1,848.40	-122.68	2,084.48	1,882.65	201.83	10.328	
8,700.00	8,653.46	8,627.46	8,627.46	31.42	173.08	8.64	1,848.40	-122.68	2,084.48	1,880.29	204.19	10.209	
8,800.00	8,753.46	8,727.46	8,727.46	31.76	175.09	8.64	1,848.40	-122.68	2,084.48	1,877.93	206.55	10.092	
8,900.00	8,853.46	8,827.46	8,827.46	32.11	177.10	8.64	1,848.40	-122.68	2,084.48	1,875.57	208.90	9.978	
9,000.00	8,953.46	8,927.46	8,927.46	32.45	179.11	8.64	1,848.40	-122.68	2,084.48	1,873.21	211.26	9.867	
9,100.00	9,053.46	9,027.46	9,027.46	32.80	181.12	8.64	1,848.40	-122.68	2,084.48	1,870.86	213.62	9.758	
9,200.00	9,153.46	9,127.46	9,127.46	33.14	183.13	8.64	1,848.40	-122.68	2,084.48	1,868.50	215.98	9.651	
9,300.00	9,253.46	9,227.46	9,227.46	33.49	185.15	8.64	1,848.40	-122.68	2,084.48	1,866.14	218.34	9.547	
9,400.00	9,353.46	9,327.46	9,327.46	33.83	187.16	8.64	1,848.40	-122.68	2,084.48	1,863.78	220.70	9.445	
9,500.00	9,453.46	9,427.46	9,427.46	34.18	189.17	8.64	1,848.40	-122.68	2,084.48	1,861.42	223.06	9.345	
9,600.00	9,553.46	9,527.46	9,527.46	34.53	191.18	8.64	1,848.40	-122.68	2,084.48	1,859.06	225.42	9.247	
9,700.00	9,653.46	9,627.46	9,627.46	34.87	193.19	8.64	1,848.40	-122.68	2,084.48	1,856.70	227.78	9.151	
9,800.00	9,753.46	9,727.46	9,727.46	35.22	195.20	8.64	1,848.40	-122.68	2,084.48	1,854.34	230.14	9.057	
9,900.00	9,853.46	9,827.46	9,827.46	35.57	197.21	8.64	1,848.40	-122.68	2,084.48	1,851.98	232.50	8.965	
9,955.59	9,909.05	9,883.05	9,883.05	35.76	198.33	8.64	1,848.40	-122.68	2,084.48	1,850.66	233.81	8.915	
10,000.00	9,953.41	9,927.41	9,927.41	35.91	199.22	9.05	1,848.40	-122.68	2,082.78	1,847.92	234.86	8.868	
10,050.00	10,003.03	9,977.03	9,977.03	36.08	200.22	9.17	1,848.40	-122.68	2,076.81	1,840.78	236.03	8.799	
10,100.00	10,051.93	10,025.93	10,025.93	36.23	201.20	9.39	1,848.40	-122.68	2,066.60	1,829.42	237.18	8.713	
10,150.00	10,099.75	10,073.75	10,073.75	36.38	202.16	9.70	1,848.40	-122.68	2,052.22	1,813.92	238.30	8.612	
10,200.00	10,146.11	10,120.11	10,120.11	36.52	203.10	10.14	1,848.40	-122.68	2,033.79	1,794.40	239.39	8.496	
10,250.00	10,190.67	10,164.67	10,164.67	36.64	203.99	10.70	1,848.40	-122.68	2,011.44	1,771.01	240.43	8.366	
10,300.00	10,233.09	10,207.09	10,207.09	36.75	204.85	11.44	1,848.40	-122.68	1,985.35	1,743.93	241.42	8.224	
10,350.00	10,273.04	10,247.04	10,247.04	36.85	205.65	12.37	1,848.40	-122.68	1,955.72	1,713.38	242.34	8.070	
10,400.00	10,310.22	10,284.22	10,284.22	36.94	206.40	13.58	1,848.40	-122.68	1,922.79	1,679.60	243.20	7.906	
10,450.00	10,344.35	10,318.35	10,318.35	37.01	207.08	15.13	1,848.40	-122.68	1,886.82	1,642.83	243.98	7.733	
10,500.00	10,375.16	10,349.16	10,349.16	37.07	207.70	17.16	1,848.40	-122.68	1,848.07	1,603.38	244.69	7.553	
10,550.00	10,402.43	10,376.43	10,376.43	37.11	208.25	19.88	1,848.40	-122.68	1,806.85	1,561.54	245.31	7.366	
10,600.00	10,425.94	10,399.94	10,399.94	37.15	208.72	23.60	1,848.40	-122.68	1,763.48	1,517.64	245.85	7.173	
10,650.00	10,445.52	10,419.52	10,419.52	37.19	209.12	28.88	1,848.40	-122.68	1,718.31	1,472.01	246.30	6.977	
10,700.00	10,461.01	10,435.01	10,435.01	37.23	209.43	36.61	1,848.40	-122.68	1,671.68	1,425.02	246.66	6.777	
10,750.00	10,472.31	10,446.31	10,446.31	37.30	209.66	48.26	1,848.40	-122.68	1,623.96	1,377.03	246.93	6.577	
10,800.00	10,479.31	10,453.31	10,453.31	37.41	209.80	65.44	1,848.40	-122.68	1,575.51	1,328.40	247.11	6.376	
10,850.00	10,481.98	10,455.98	10,455.98	37.55	209.85	87.45	1,848.40	-122.68	1,526.72	1,279.52	247.20	6.176	
10,858.49	10,482.00	10,456.00	10,456.00	37.57	209.85	91.32	1,848.40	-122.68	1,518.42	1,271.22	247.21	6.142	
10,900.00	10,481.79	10,455.79	10,455.79	37.70	209.85	91.28	1,848.40	-122.68	1,477.91	1,230.68	247.23	5.978	
11,000.00	10,481.28	10,455.28	10,455.28	38.06	209.84	91.19	1,848.40	-122.68	1,380.57	1,133.25	247.31	5.582	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,100.00	10,480.78	10,454.78	10,454.78	38.49	209.83	91.10	1,848.40	-122.68	1,283.63	1,036.21	247.42	5.188	
11,200.00	10,480.27	10,454.27	10,454.27	38.98	209.82	91.01	1,848.40	-122.68	1,187.19	939.65	247.54	4.796	
11,300.00	10,479.77	10,453.77	10,453.77	39.53	209.81	90.92	1,848.40	-122.68	1,091.40	843.70	247.71	4.406	
11,400.00	10,479.26	10,453.26	10,453.26	40.14	209.80	90.83	1,848.40	-122.68	996.44	748.52	247.92	4.019	
11,500.00	10,478.76	10,452.76	10,452.76	40.81	209.79	90.75	1,848.40	-122.68	902.56	654.37	248.19	3.637	
11,600.00	10,478.25	10,452.25	10,452.25	41.54	209.78	90.66	1,848.40	-122.68	810.16	561.59	248.56	3.259	
11,700.00	10,477.75	10,451.75	10,451.75	42.31	209.77	90.57	1,848.40	-122.68	719.78	470.71	249.07	2.890	
11,800.00	10,477.24	10,451.24	10,451.24	43.14	209.76	90.48	1,848.40	-122.68	632.31	382.54	249.77	2.532	
11,900.00	10,476.74	10,450.74	10,450.74	44.01	209.75	90.39	1,848.40	-122.68	549.13	298.37	250.75	2.190	
12,000.00	10,476.23	10,450.23	10,450.23	44.92	209.74	90.30	1,848.40	-122.68	472.51	220.38	252.13	1.874	
12,100.00	10,475.73	10,449.73	10,449.73	45.88	209.73	90.21	1,848.40	-122.68	406.20	152.23	253.97	1.599	
12,200.00	10,475.22	10,449.22	10,449.22	46.87	209.72	90.13	1,848.40	-122.68	355.98	99.93	256.05	1.390	Level 3
12,300.00	10,474.72	10,448.72	10,448.72	47.90	209.71	90.04	1,848.40	-122.68	329.32	71.75	257.57	1.279	Level 3
12,341.36	10,474.51	10,448.51	10,448.51	48.34	209.70	90.00	1,848.40	-122.68	326.71	68.96	257.75	1.268	Level 3, CC, ES, SF
12,400.00	10,474.22	10,448.22	10,448.22	48.97	209.69	89.95	1,848.40	-122.68	331.93	74.48	257.45	1.289	Level 3
12,500.00	10,473.71	10,447.71	10,447.71	50.06	209.68	89.86	1,848.40	-122.68	363.19	107.36	255.83	1.420	Level 3
12,600.00	10,473.21	10,447.21	10,447.21	51.19	209.67	89.77	1,848.40	-122.68	416.69	162.88	253.81	1.642	
12,700.00	10,472.70	10,446.70	10,446.70	52.34	209.66	89.68	1,848.40	-122.68	485.13	233.04	252.09	1.924	
12,800.00	10,472.20	10,446.20	10,446.20	53.52	209.65	89.60	1,848.40	-122.68	563.10	312.28	250.82	2.245	
12,900.00	10,471.70	10,445.70	10,445.70	54.73	209.64	89.51	1,848.40	-122.68	647.15	397.23	249.92	2.589	
13,000.00	10,471.19	10,445.19	10,445.19	55.96	209.63	89.42	1,848.40	-122.68	735.21	485.93	249.28	2.949	
13,100.00	10,470.69	10,444.69	10,444.69	57.21	209.62	89.33	1,848.40	-122.68	825.99	577.16	248.82	3.320	
13,200.00	10,470.19	10,444.19	10,444.19	58.48	209.61	89.24	1,848.40	-122.68	918.68	670.20	248.49	3.697	
13,300.00	10,469.68	10,443.68	10,443.68	59.77	209.60	89.15	1,848.40	-122.68	1,012.77	764.53	248.24	4.080	
13,400.00	10,469.18	10,443.18	10,443.18	61.07	209.59	89.07	1,848.40	-122.68	1,107.89	859.84	248.05	4.466	
13,500.00	10,468.68	10,442.68	10,442.68	62.40	209.58	88.98	1,848.40	-122.68	1,203.80	955.89	247.91	4.856	
13,600.00	10,468.18	10,442.18	10,442.18	63.73	209.57	88.89	1,848.40	-122.68	1,300.33	1,052.53	247.80	5.247	
13,700.00	10,467.67	10,441.67	10,441.67	65.09	209.56	88.80	1,848.40	-122.68	1,397.35	1,149.63	247.72	5.641	
13,800.00	10,467.17	10,441.17	10,441.17	66.46	209.55	88.72	1,848.40	-122.68	1,494.76	1,247.10	247.66	6.035	
13,900.00	10,466.67	10,440.67	10,440.67	67.83	209.54	88.63	1,848.40	-122.68	1,592.49	1,344.87	247.62	6.431	
14,000.00	10,466.17	10,440.17	10,440.17	69.23	209.53	88.54	1,848.40	-122.68	1,690.49	1,442.90	247.58	6.828	
14,100.00	10,465.67	10,439.67	10,439.67	70.63	209.52	88.45	1,848.40	-122.68	1,788.70	1,541.15	247.56	7.225	
14,200.00	10,465.17	10,439.17	10,439.17	72.04	209.51	88.37	1,848.40	-122.68	1,887.11	1,639.57	247.54	7.623	
14,300.00	10,464.66	10,438.66	10,438.66	73.47	209.50	88.28	1,848.40	-122.68	1,985.67	1,738.14	247.53	8.022	
14,400.00	10,464.16	10,438.16	10,438.16	74.90	209.49	88.19	1,848.40	-122.68	2,084.37	1,836.84	247.53	8.421	
14,500.00	10,463.66	10,437.66	10,437.66	76.34	209.48	88.10	1,848.40	-122.68	2,183.19	1,935.66	247.54	8.820	
14,600.00	10,463.16	10,437.16	10,437.16	77.80	209.47	88.02	1,848.40	-122.68	2,282.12	2,034.57	247.54	9.219	
14,700.00	10,462.66	10,436.66	10,436.66	79.26	209.46	87.93	1,848.40	-122.68	2,381.13	2,133.57	247.56	9.619	
14,800.00	10,462.16	10,436.16	10,436.16	80.72	209.45	87.84	1,848.40	-122.68	2,480.22	2,232.65	247.57	10.018	
14,900.00	10,461.66	10,435.66	10,435.66	82.20	209.44	87.76	1,848.40	-122.68	2,579.38	2,331.79	247.59	10.418	
15,000.00	10,461.16	10,435.16	10,435.16	83.68	209.43	87.67	1,848.40	-122.68	2,678.60	2,430.99	247.61	10.818	
15,100.00	10,460.66	10,434.66	10,434.66	85.16	209.42	87.58	1,848.40	-122.68	2,777.88	2,530.25	247.63	11.218	
15,200.00	10,460.16	10,434.16	10,434.16	86.66	209.41	87.49	1,848.40	-122.68	2,877.21	2,629.55	247.66	11.618	
15,300.00	10,459.66	10,433.66	10,433.66	88.16	209.40	87.41	1,848.40	-122.68	2,976.58	2,728.90	247.69	12.017	
15,400.00	10,459.16	10,433.16	10,433.16	89.66	209.39	87.32	1,848.40	-122.68	3,076.00	2,828.28	247.72	12.417	
15,500.00	10,458.66	10,432.66	10,432.66	91.17	209.38	87.23	1,848.40	-122.68	3,175.45	2,927.70	247.75	12.817	
15,600.00	10,458.16	10,432.16	10,432.16	92.69	209.37	87.15	1,848.40	-122.68	3,274.93	3,027.15	247.79	13.217	
15,700.00	10,457.66	10,431.66	10,431.66	94.21	209.36	87.06	1,848.40	-122.68	3,374.45	3,126.63	247.82	13.616	
15,800.00	10,457.16	10,431.16	10,431.16	95.73	209.35	86.97	1,848.40	-122.68	3,473.99	3,226.13	247.86	14.016	
15,900.00	10,456.66	10,430.66	10,430.66	97.26	209.34	86.89	1,848.40	-122.68	3,573.56	3,325.66	247.90	14.416	
16,000.00	10,456.16	10,430.16	10,430.16	98.79	209.33	86.80	1,848.40	-122.68	3,673.15	3,425.22	247.93	14.815	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT GAVILAN FEDERAL #1 - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,100.00	10,455.66	10,429.66	10,429.66	100.33	209.32	86.71	1,848.40	-122.68	3,772.76	3,524.79	247.98	15.214	
16,200.00	10,455.16	10,429.16	10,429.16	101.87	209.31	86.63	1,848.40	-122.68	3,872.40	3,624.38	248.02	15.613	
16,300.00	10,454.67	10,428.67	10,428.67	103.41	209.30	86.54	1,848.40	-122.68	3,972.05	3,723.99	248.06	16.012	
16,400.00	10,454.17	10,428.17	10,428.17	104.96	209.29	86.46	1,848.40	-122.68	4,071.72	3,823.61	248.11	16.411	
16,500.00	10,453.67	10,427.67	10,427.67	106.51	209.28	86.37	1,848.40	-122.68	4,171.40	3,923.25	248.15	16.810	
16,600.00	10,453.17	10,427.17	10,427.17	108.07	209.27	86.28	1,848.40	-122.68	4,271.10	4,022.90	248.20	17.208	
16,700.00	10,452.67	10,426.67	10,426.67	109.62	209.26	86.20	1,848.40	-122.68	4,370.81	4,122.57	248.25	17.607	
16,800.00	10,452.17	10,426.17	10,426.17	111.18	209.25	86.11	1,848.40	-122.68	4,470.54	4,222.24	248.29	18.005	
16,900.00	10,451.68	10,425.68	10,425.68	112.74	209.24	86.03	1,848.40	-122.68	4,570.28	4,321.93	248.34	18.403	
17,000.00	10,451.18	10,425.18	10,425.18	114.31	209.23	85.94	1,848.40	-122.68	4,670.02	4,421.63	248.40	18.801	
17,100.00	10,450.68	10,424.68	10,424.68	115.88	209.22	85.85	1,848.40	-122.68	4,769.78	4,521.34	248.45	19.198	
17,200.00	10,450.18	10,424.18	10,424.18	117.45	209.21	85.77	1,848.40	-122.68	4,869.55	4,621.05	248.50	19.596	
17,300.00	10,449.69	10,423.69	10,423.69	119.02	209.20	85.68	1,848.40	-122.68	4,969.33	4,720.78	248.55	19.993	
17,400.00	10,449.19	10,423.19	10,423.19	120.60	209.19	85.60	1,848.40	-122.68	5,069.12	4,820.51	248.61	20.390	
17,500.00	10,448.69	10,422.69	10,422.69	122.17	209.18	85.51	1,848.40	-122.68	5,168.91	4,920.25	248.67	20.787	
17,600.00	10,448.20	10,422.20	10,422.20	123.75	209.17	85.43	1,848.40	-122.68	5,268.71	5,019.99	248.72	21.183	
17,700.00	10,447.70	10,421.70	10,421.70	125.33	209.16	85.34	1,848.40	-122.68	5,368.52	5,119.74	248.78	21.579	
17,800.00	10,447.20	10,421.20	10,421.20	126.91	209.15	85.26	1,848.40	-122.68	5,468.34	5,219.50	248.84	21.975	
17,900.00	10,446.71	10,420.71	10,420.71	128.50	209.14	85.17	1,848.40	-122.68	5,568.17	5,319.27	248.90	22.371	
18,000.00	10,446.21	10,420.21	10,420.21	130.09	209.13	85.09	1,848.40	-122.68	5,667.99	5,419.03	248.96	22.767	
18,100.00	10,445.71	10,419.71	10,419.71	131.67	209.12	85.00	1,848.40	-122.68	5,767.83	5,518.81	249.02	23.162	
18,200.00	10,445.22	10,419.22	10,419.22	133.26	209.11	84.92	1,848.40	-122.68	5,867.67	5,618.59	249.08	23.557	
18,300.00	10,444.72	10,418.72	10,418.72	134.86	209.10	84.83	1,848.40	-122.68	5,967.52	5,718.37	249.15	23.952	
18,400.00	10,444.23	10,418.23	10,418.23	136.45	209.09	84.75	1,848.40	-122.68	6,067.37	5,818.16	249.21	24.346	
18,500.00	10,443.73	10,417.73	10,417.73	138.04	209.08	84.66	1,848.40	-122.68	6,167.23	5,917.95	249.28	24.740	
18,600.00	10,443.24	10,417.24	10,417.24	139.64	209.07	84.58	1,848.40	-122.68	6,267.09	6,017.74	249.34	25.134	
18,700.00	10,442.74	10,416.74	10,416.74	141.24	209.06	84.49	1,848.40	-122.68	6,366.95	6,117.54	249.41	25.528	
18,800.00	10,442.25	10,416.25	10,416.25	142.84	209.05	84.41	1,848.40	-122.68	6,466.82	6,217.34	249.48	25.921	
18,900.00	10,441.75	10,415.75	10,415.75	144.44	209.04	84.32	1,848.40	-122.68	6,566.69	6,317.15	249.55	26.315	
19,000.00	10,441.26	10,415.26	10,415.26	146.04	209.03	84.24	1,848.40	-122.68	6,666.57	6,416.96	249.62	26.707	
19,100.00	10,440.76	10,414.76	10,414.76	147.64	209.02	84.15	1,848.40	-122.68	6,766.45	6,516.77	249.69	27.100	
19,200.00	10,440.27	10,414.27	10,414.27	149.24	209.01	84.07	1,848.40	-122.68	6,866.34	6,616.58	249.76	27.492	
19,300.00	10,439.77	10,413.77	10,413.77	150.85	209.00	83.99	1,848.40	-122.68	6,966.22	6,716.39	249.83	27.884	
19,400.00	10,439.28	10,413.28	10,413.28	152.45	208.99	83.90	1,848.40	-122.68	7,066.11	6,816.21	249.90	28.276	
19,500.00	10,438.78	10,412.78	10,412.78	154.06	208.98	83.82	1,848.40	-122.68	7,166.01	6,916.03	249.97	28.667	
19,600.00	10,438.29	10,412.29	10,412.29	155.67	208.97	83.73	1,848.40	-122.68	7,265.90	7,015.85	250.05	29.058	
19,700.00	10,437.80	10,411.80	10,411.80	157.28	208.96	83.65	1,848.40	-122.68	7,365.80	7,115.68	250.12	29.449	
19,800.00	10,437.30	10,411.30	10,411.30	158.89	208.95	83.57	1,848.40	-122.68	7,465.70	7,215.51	250.20	29.839	
19,900.00	10,436.81	10,410.81	10,410.81	160.50	208.94	83.48	1,848.40	-122.68	7,565.61	7,315.33	250.27	30.229	
20,000.00	10,436.32	10,410.32	10,410.32	162.11	208.93	83.40	1,848.40	-122.68	7,665.52	7,415.16	250.35	30.619	
20,100.00	10,435.82	10,409.82	10,409.82	163.72	208.92	83.31	1,848.40	-122.68	7,765.42	7,514.99	250.43	31.008	
20,200.00	10,435.33	10,409.33	10,409.33	165.34	208.91	83.23	1,848.40	-122.68	7,865.34	7,614.83	250.51	31.398	
20,300.00	10,434.84	10,408.84	10,408.84	166.95	208.90	83.15	1,848.40	-122.68	7,965.25	7,714.66	250.59	31.786	
20,400.00	10,434.34	10,408.34	10,408.34	168.57	208.89	83.06	1,848.40	-122.68	8,065.17	7,814.50	250.67	32.175	
20,500.00	10,433.85	10,407.85	10,407.85	170.18	208.88	82.98	1,848.40	-122.68	8,165.08	7,914.34	250.75	32.563	
20,600.00	10,433.36	10,407.36	10,407.36	171.80	208.87	82.90	1,848.40	-122.68	8,265.00	8,014.17	250.83	32.951	
20,700.00	10,432.86	10,406.86	10,406.86	173.42	208.86	82.81	1,848.40	-122.68	8,364.92	8,114.01	250.91	33.338	
20,800.00	10,432.37	10,406.37	10,406.37	175.04	208.85	82.73	1,848.40	-122.68	8,464.85	8,213.85	250.99	33.725	
20,875.64	10,432.00	10,406.00	10,406.00	176.26	208.85	82.67	1,848.40	-122.68	8,540.43	8,289.37	251.06	34.018	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001

Offset Site Error: 0.00 usft

Survey Program: 14375-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	29.24	6,816.80	3,815.56	7,812.23				
100.00	100.00	39.00	39.00	0.14	1.04	29.24	6,816.80	3,815.56	7,811.99	7,810.82	1.17	6,654.275	
200.00	200.00	139.00	139.00	0.49	3.70	29.24	6,816.80	3,815.56	7,811.99	7,807.80	4.20	1,862.142	
300.00	300.00	239.00	239.00	0.85	6.36	29.24	6,816.80	3,815.56	7,811.99	7,804.78	7.22	1,082.541	
400.00	400.00	339.00	339.00	1.21	9.03	29.24	6,816.80	3,815.56	7,811.99	7,801.75	10.24	763.074	
500.00	500.00	439.00	439.00	1.57	11.69	29.24	6,816.80	3,815.56	7,811.99	7,798.73	13.26	589.197	
600.00	600.00	539.00	539.00	1.93	14.35	29.24	6,816.80	3,815.56	7,811.99	7,795.71	16.28	479.855	
700.00	700.00	639.00	639.00	2.29	17.01	29.24	6,816.80	3,815.56	7,811.99	7,792.69	19.30	404.744	
800.00	800.00	739.00	739.00	2.64	19.68	29.24	6,816.80	3,815.56	7,811.99	7,789.67	22.32	349.964	
900.00	900.00	839.00	839.00	3.00	22.34	29.24	6,816.80	3,815.56	7,811.99	7,786.65	25.34	308.245	
1,000.00	1,000.00	939.00	939.00	3.36	25.00	29.24	6,816.80	3,815.56	7,811.99	7,783.63	28.36	275.413	
1,100.00	1,100.00	1,039.00	1,039.00	3.72	27.67	29.24	6,816.80	3,815.56	7,811.99	7,780.61	31.39	248.902	
1,200.00	1,200.00	1,139.00	1,139.00	4.08	30.33	29.24	6,816.80	3,815.56	7,811.99	7,777.58	34.41	227.047	
1,300.00	1,300.00	1,239.00	1,239.00	4.44	32.99	29.24	6,816.80	3,815.56	7,811.99	7,774.56	37.43	208.720	
1,400.00	1,400.00	1,339.00	1,339.00	4.80	35.65	29.24	6,816.80	3,815.56	7,811.99	7,771.54	40.45	193.130	
1,500.00	1,500.00	1,439.00	1,439.00	5.15	38.32	29.24	6,816.80	3,815.56	7,811.99	7,768.52	43.47	179.708	
1,600.00	1,600.00	1,539.00	1,539.00	5.51	40.98	29.24	6,816.80	3,815.56	7,811.99	7,765.50	46.49	168.030	
1,700.00	1,700.00	1,639.00	1,639.00	5.87	43.64	29.24	6,816.80	3,815.56	7,811.99	7,762.48	49.51	157.777	
1,800.00	1,800.00	1,739.00	1,739.00	6.23	46.30	29.24	6,816.80	3,815.56	7,811.99	7,759.46	52.53	148.703	
1,900.00	1,900.00	1,839.00	1,839.00	6.59	48.97	29.24	6,816.80	3,815.56	7,811.99	7,756.44	55.56	140.617	
2,000.00	2,000.00	1,939.00	1,939.00	6.95	51.63	29.24	6,816.80	3,815.56	7,811.99	7,753.42	58.58	133.364	
2,100.00	2,100.00	2,039.00	2,039.00	7.30	54.29	29.24	6,816.80	3,815.56	7,811.99	7,750.39	61.60	126.823	
2,200.00	2,200.00	2,139.00	2,139.00	7.66	56.96	29.24	6,816.80	3,815.56	7,811.99	7,747.37	64.62	120.893	
2,300.00	2,299.98	2,238.98	2,238.98	8.01	59.62	145.22	6,816.80	3,815.56	7,813.43	7,745.80	67.63	115.538	
2,400.00	2,399.84	2,338.84	2,338.84	8.34	62.28	145.19	6,816.80	3,815.56	7,817.72	7,747.10	70.62	110.700	
2,500.00	2,499.45	2,438.45	2,438.45	8.68	64.93	145.15	6,816.80	3,815.56	7,824.89	7,751.28	73.61	106.301	
2,600.00	2,598.70	2,537.70	2,537.70	9.03	67.57	145.08	6,816.80	3,815.56	7,834.91	7,758.32	76.59	102.291	
2,700.00	2,697.47	2,636.47	2,636.47	9.38	70.20	145.00	6,816.80	3,815.56	7,847.78	7,768.21	79.57	98.630	
2,800.00	2,795.62	2,734.62	2,734.62	9.75	72.82	144.90	6,816.80	3,815.56	7,863.50	7,780.97	82.53	95.281	
2,900.00	2,893.44	2,832.44	2,832.44	10.13	75.42	144.98	6,816.80	3,815.56	7,880.64	7,795.15	85.49	92.187	
3,000.00	2,991.25	2,930.25	2,930.25	10.51	78.02	145.07	6,816.80	3,815.56	7,897.80	7,809.35	88.44	89.296	
3,100.00	3,089.07	3,028.07	3,028.07	10.91	80.63	145.15	6,816.80	3,815.56	7,914.97	7,823.56	91.41	86.589	
3,200.00	3,186.88	3,125.88	3,125.88	11.31	83.23	145.24	6,816.80	3,815.56	7,932.17	7,837.79	94.38	84.048	
3,300.00	3,284.70	3,223.70	3,223.70	11.72	85.84	145.32	6,816.80	3,815.56	7,949.38	7,852.03	97.35	81.660	
3,400.00	3,382.51	3,321.51	3,321.51	12.14	88.44	145.41	6,816.80	3,815.56	7,966.60	7,866.28	100.32	79.410	
3,500.00	3,480.33	3,419.33	3,419.33	12.56	91.05	145.49	6,816.80	3,815.56	7,983.85	7,880.55	103.30	77.288	
3,600.00	3,578.14	3,517.14	3,517.14	12.99	93.65	145.58	6,816.80	3,815.56	8,001.11	7,894.83	106.28	75.284	
3,700.00	3,675.96	3,614.96	3,614.96	13.42	96.26	145.66	6,816.80	3,815.56	8,018.39	7,909.13	109.26	73.387	
3,800.00	3,773.77	3,712.77	3,712.77	13.86	98.86	145.74	6,816.80	3,815.56	8,035.68	7,923.44	112.25	71.590	
3,900.00	3,871.59	3,810.59	3,810.59	14.30	101.47	145.83	6,816.80	3,815.56	8,052.99	7,937.76	115.23	69.885	
4,000.00	3,969.40	3,908.40	3,908.40	14.75	104.07	145.91	6,816.80	3,815.56	8,070.32	7,952.10	118.22	68.266	
4,100.00	4,067.22	4,006.22	4,006.22	15.19	106.67	145.99	6,816.80	3,815.56	8,087.67	7,966.46	121.21	66.725	
4,200.00	4,165.03	4,104.03	4,104.03	15.64	109.28	146.07	6,816.80	3,815.56	8,105.03	7,980.83	124.20	65.258	
4,300.00	4,262.84	4,201.84	4,201.84	16.10	111.88	146.15	6,816.80	3,815.56	8,122.40	7,995.21	127.19	63.860	
4,400.00	4,360.66	4,299.66	4,299.66	16.55	114.49	146.23	6,816.80	3,815.56	8,139.80	8,009.61	130.18	62.525	
4,500.00	4,458.47	4,397.47	4,397.47	17.01	117.09	146.31	6,816.80	3,815.56	8,157.20	8,024.02	133.18	61.250	
4,529.32	4,487.15	4,426.15	4,426.15	17.14	117.86	146.34	6,816.80	3,815.56	8,162.31	8,028.25	134.06	60.887	
4,600.00	4,556.46	4,495.46	4,495.46	17.46	119.70	146.52	6,816.80	3,815.56	8,173.91	8,037.74	136.18	60.024	
4,700.00	4,655.06	4,594.06	4,594.06	17.90	122.33	146.74	6,816.80	3,815.56	8,187.88	8,048.70	139.18	58.828	
4,800.00	4,754.18	4,693.18	4,693.18	18.31	124.97	146.91	6,816.80	3,815.56	8,198.96	8,056.76	142.19	57.660	
4,900.00	4,853.70	4,792.70	4,792.70	18.69	127.62	147.04	6,816.80	3,815.56	8,207.13	8,061.92	145.21	56.520	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001

Offset Site Error: 0.00 usft

Survey Program: 14375-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	4,892.50	4,892.50	19.05	130.27	147.12	6,816.80	3,815.56	8,212.38	8,064.16	148.22	55.407	
5,100.00	5,053.46	4,992.46	4,992.46	19.39	132.93	147.16	6,816.80	3,815.56	8,214.71	8,063.48	151.23	54.321	
5,129.32	5,082.78	5,021.78	5,021.78	19.49	133.72	31.17	6,816.80	3,815.56	8,214.84	8,062.73	152.11	54.007	
5,200.00	5,153.46	5,092.46	5,092.46	19.71	135.60	31.17	6,816.80	3,815.56	8,214.84	8,060.61	154.23	53.265	
5,300.00	5,253.46	5,192.46	5,192.46	20.04	138.26	31.17	6,816.80	3,815.56	8,214.84	8,057.61	157.22	52.249	
5,400.00	5,353.46	5,292.46	5,292.46	20.36	140.92	31.17	6,816.80	3,815.56	8,214.84	8,054.61	160.22	51.271	
5,500.00	5,453.46	5,392.46	5,392.46	20.68	143.59	31.17	6,816.80	3,815.56	8,214.84	8,051.61	163.23	50.328	
5,600.00	5,553.46	5,492.46	5,492.46	21.00	146.25	31.17	6,816.80	3,815.56	8,214.84	8,048.61	166.23	49.419	
5,700.00	5,653.46	5,592.46	5,592.46	21.33	148.91	31.17	6,816.80	3,815.56	8,214.84	8,045.61	169.23	48.542	
5,800.00	5,753.46	5,692.46	5,692.46	21.65	151.57	31.17	6,816.80	3,815.56	8,214.84	8,042.60	172.23	47.696	
5,900.00	5,853.46	5,792.46	5,792.46	21.98	154.24	31.17	6,816.80	3,815.56	8,214.84	8,039.60	175.24	46.879	
6,000.00	5,953.46	5,892.46	5,892.46	22.31	156.90	31.17	6,816.80	3,815.56	8,214.84	8,036.60	178.24	46.088	
6,100.00	6,053.46	5,992.46	5,992.46	22.64	159.56	31.17	6,816.80	3,815.56	8,214.84	8,033.59	181.25	45.324	
6,200.00	6,153.46	6,092.46	6,092.46	22.97	162.22	31.17	6,816.80	3,815.56	8,214.84	8,030.59	184.25	44.585	
6,300.00	6,253.46	6,192.46	6,192.46	23.30	164.89	31.17	6,816.80	3,815.56	8,214.84	8,027.58	187.26	43.869	
6,400.00	6,353.46	6,292.46	6,292.46	23.63	167.55	31.17	6,816.80	3,815.56	8,214.84	8,024.57	190.26	43.176	
6,500.00	6,453.46	6,392.46	6,392.46	23.96	170.21	31.17	6,816.80	3,815.56	8,214.84	8,021.57	193.27	42.505	
6,600.00	6,553.46	6,492.46	6,492.46	24.30	172.88	31.17	6,816.80	3,815.56	8,214.84	8,018.56	196.28	41.853	
6,700.00	6,653.46	6,592.46	6,592.46	24.63	175.54	31.17	6,816.80	3,815.56	8,214.84	8,015.55	199.28	41.222	
6,800.00	6,753.46	6,692.46	6,692.46	24.96	178.20	31.17	6,816.80	3,815.56	8,214.84	8,012.54	202.29	40.609	
6,900.00	6,853.46	6,792.46	6,792.46	25.30	180.86	31.17	6,816.80	3,815.56	8,214.84	8,009.54	205.30	40.014	
7,000.00	6,953.46	6,892.46	6,892.46	25.64	183.53	31.17	6,816.80	3,815.56	8,214.84	8,006.53	208.31	39.436	
7,100.00	7,053.46	6,992.46	6,992.46	25.97	186.19	31.17	6,816.80	3,815.56	8,214.84	8,003.52	211.32	38.874	
7,200.00	7,153.46	7,092.46	7,092.46	26.31	188.85	31.17	6,816.80	3,815.56	8,214.84	8,000.51	214.33	38.328	
7,300.00	7,253.46	7,192.46	7,192.46	26.65	191.51	31.17	6,816.80	3,815.56	8,214.84	7,997.50	217.34	37.798	
7,400.00	7,353.46	7,292.46	7,292.46	26.98	194.18	31.17	6,816.80	3,815.56	8,214.84	7,994.49	220.35	37.281	
7,500.00	7,453.46	7,392.46	7,392.46	27.32	196.84	31.17	6,816.80	3,815.56	8,214.84	7,991.48	223.36	36.779	
7,600.00	7,553.46	7,492.46	7,492.46	27.66	199.50	31.17	6,816.80	3,815.56	8,214.84	7,988.47	226.37	36.290	
7,700.00	7,653.46	7,592.46	7,592.46	28.00	202.17	31.17	6,816.80	3,815.56	8,214.84	7,985.46	229.38	35.813	
7,800.00	7,753.46	7,692.46	7,692.46	28.34	204.83	31.17	6,816.80	3,815.56	8,214.84	7,982.45	232.39	35.349	
7,900.00	7,853.46	7,792.46	7,792.46	28.68	207.49	31.17	6,816.80	3,815.56	8,214.84	7,979.44	235.40	34.897	
8,000.00	7,953.46	7,892.46	7,892.46	29.02	210.15	31.17	6,816.80	3,815.56	8,214.84	7,976.42	238.41	34.456	
8,100.00	8,053.46	7,992.46	7,992.46	29.36	212.82	31.17	6,816.80	3,815.56	8,214.84	7,973.41	241.42	34.026	
8,200.00	8,153.46	8,092.46	8,092.46	29.71	215.48	31.17	6,816.80	3,815.56	8,214.84	7,970.40	244.44	33.607	
8,300.00	8,253.46	8,192.46	8,192.46	30.05	218.14	31.17	6,816.80	3,815.56	8,214.84	7,967.39	247.45	33.198	
8,400.00	8,353.46	8,292.46	8,292.46	30.39	220.80	31.17	6,816.80	3,815.56	8,214.84	7,964.37	250.46	32.799	
8,500.00	8,453.46	8,392.46	8,392.46	30.73	223.47	31.17	6,816.80	3,815.56	8,214.84	7,961.36	253.47	32.409	
8,600.00	8,553.46	8,492.46	8,492.46	31.08	226.13	31.17	6,816.80	3,815.56	8,214.84	7,958.35	256.49	32.028	
8,700.00	8,653.46	8,592.46	8,592.46	31.42	228.79	31.17	6,816.80	3,815.56	8,214.84	7,955.34	259.50	31.656	
8,800.00	8,753.46	8,692.46	8,692.46	31.76	231.46	31.17	6,816.80	3,815.56	8,214.84	7,952.32	262.51	31.293	
8,900.00	8,853.46	8,792.46	8,792.46	32.11	234.12	31.17	6,816.80	3,815.56	8,214.84	7,949.31	265.53	30.938	
9,000.00	8,953.46	8,892.46	8,892.46	32.45	236.78	31.17	6,816.80	3,815.56	8,214.84	7,946.30	268.54	30.591	
9,100.00	9,053.46	8,992.46	8,992.46	32.80	239.44	31.17	6,816.80	3,815.56	8,214.84	7,943.28	271.55	30.251	
9,200.00	9,153.46	9,092.46	9,092.46	33.14	242.11	31.17	6,816.80	3,815.56	8,214.84	7,940.27	274.57	29.919	
9,300.00	9,253.46	9,192.46	9,192.46	33.49	244.77	31.17	6,816.80	3,815.56	8,214.84	7,937.25	277.58	29.594	
9,400.00	9,353.46	9,292.46	9,292.46	33.83	247.43	31.17	6,816.80	3,815.56	8,214.84	7,934.24	280.60	29.276	
9,500.00	9,453.46	9,392.46	9,392.46	34.18	250.09	31.17	6,816.80	3,815.56	8,214.84	7,931.22	283.61	28.965	
9,600.00	9,553.46	9,492.46	9,492.46	34.53	252.76	31.17	6,816.80	3,815.56	8,214.84	7,928.21	286.63	28.660	
9,700.00	9,653.46	9,592.46	9,592.46	34.87	255.42	31.17	6,816.80	3,815.56	8,214.84	7,925.20	289.64	28.362	
9,800.00	9,753.46	9,692.46	9,692.46	35.22	258.08	31.17	6,816.80	3,815.56	8,214.84	7,922.18	292.66	28.070	
9,900.00	9,853.46	9,792.46	9,792.46	35.57	260.75	31.17	6,816.80	3,815.56	8,214.84	7,919.17	295.67	27.784	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001

Offset Site Error: 0.00 usft

Survey Program: 14375-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,955.59	9,909.05	9,848.05	9,848.05	35.76	262.23	31.17	6,816.80	3,815.56	8,214.84	7,917.49	297.35	27.627	
10,000.00	9,953.41	9,892.41	9,892.41	35.91	263.41	31.63	6,816.80	3,815.56	8,213.37	7,914.69	298.68	27.498	
10,050.00	10,003.03	9,942.03	9,942.03	36.08	264.73	31.92	6,816.80	3,815.56	8,208.22	7,908.04	300.18	27.344	
10,100.00	10,051.93	9,990.93	9,990.93	36.23	266.03	32.44	6,816.80	3,815.56	8,199.42	7,897.76	301.65	27.181	
10,150.00	10,099.75	10,038.75	10,038.75	36.38	267.30	33.19	6,816.80	3,815.56	8,187.02	7,883.92	303.10	27.011	
10,200.00	10,146.11	10,085.11	10,085.11	36.52	268.54	34.19	6,816.80	3,815.56	8,171.13	7,866.63	304.49	26.835	
10,250.00	10,190.67	10,129.67	10,129.67	36.64	269.72	35.47	6,816.80	3,815.56	8,151.87	7,846.04	305.83	26.655	
10,300.00	10,233.09	10,172.09	10,172.09	36.75	270.85	37.06	6,816.80	3,815.56	8,129.42	7,822.30	307.11	26.471	
10,350.00	10,273.04	10,212.04	10,212.04	36.85	271.92	39.01	6,816.80	3,815.56	8,103.93	7,795.62	308.32	26.284	
10,400.00	10,310.22	10,249.22	10,249.22	36.94	272.91	41.36	6,816.80	3,815.56	8,075.63	7,766.19	309.44	26.098	
10,450.00	10,344.35	10,283.35	10,283.35	37.01	273.82	44.18	6,816.80	3,815.56	8,044.73	7,734.26	310.47	25.911	
10,500.00	10,375.16	10,314.16	10,314.16	37.07	274.64	47.55	6,816.80	3,815.56	8,011.49	7,700.08	311.41	25.726	
10,550.00	10,402.43	10,341.43	10,341.43	37.11	275.36	51.52	6,816.80	3,815.56	7,976.17	7,663.92	312.25	25.544	
10,600.00	10,425.94	10,364.94	10,364.94	37.15	275.99	56.17	6,816.80	3,815.56	7,939.05	7,626.06	312.99	25.366	
10,650.00	10,445.52	10,384.52	10,384.52	37.19	276.51	61.56	6,816.80	3,815.56	7,900.42	7,586.81	313.61	25.192	
10,700.00	10,461.01	10,400.01	10,400.01	37.23	276.92	67.67	6,816.80	3,815.56	7,860.59	7,546.46	314.12	25.024	
10,750.00	10,472.31	10,411.31	10,411.31	37.30	277.22	74.43	6,816.80	3,815.56	7,819.86	7,505.34	314.52	24.863	
10,800.00	10,479.31	10,418.31	10,418.31	37.41	277.41	81.69	6,816.80	3,815.56	7,778.56	7,463.75	314.81	24.709	
10,850.00	10,481.98	10,420.98	10,420.98	37.55	277.48	89.16	6,816.80	3,815.56	7,737.01	7,422.03	314.98	24.563	
10,858.49	10,482.00	10,421.00	10,421.00	37.57	277.48	90.43	6,816.80	3,815.56	7,729.95	7,414.95	315.00	24.540	
10,900.00	10,481.79	10,420.79	10,420.79	37.70	277.48	90.43	6,816.80	3,815.56	7,695.48	7,380.41	315.08	24.424	
11,000.00	10,481.28	10,420.28	10,420.28	38.06	277.46	90.42	6,816.80	3,815.56	7,612.74	7,297.45	315.29	24.145	
11,100.00	10,480.78	10,419.78	10,419.78	38.49	277.45	90.42	6,816.80	3,815.56	7,530.41	7,214.88	315.54	23.865	
11,200.00	10,480.27	10,419.27	10,419.27	38.98	277.44	90.41	6,816.80	3,815.56	7,448.52	7,132.71	315.81	23.586	
11,300.00	10,479.77	10,418.77	10,418.77	39.53	277.42	90.40	6,816.80	3,815.56	7,367.07	7,050.96	316.11	23.305	
11,400.00	10,479.26	10,418.26	10,418.26	40.14	277.41	90.40	6,816.80	3,815.56	7,286.09	6,969.64	316.45	23.025	
11,500.00	10,478.76	10,417.76	10,417.76	40.81	277.39	90.39	6,816.80	3,815.56	7,205.58	6,888.76	316.82	22.744	
11,600.00	10,478.25	10,417.25	10,417.25	41.54	277.38	90.38	6,816.80	3,815.56	7,125.57	6,808.35	317.22	22.463	
11,700.00	10,477.75	10,416.75	10,416.75	42.31	277.37	90.38	6,816.80	3,815.56	7,046.06	6,728.40	317.66	22.181	
11,800.00	10,477.24	10,416.24	10,416.24	43.14	277.35	90.37	6,816.80	3,815.56	6,967.09	6,648.96	318.13	21.900	
11,900.00	10,476.74	10,415.74	10,415.74	44.01	277.34	90.36	6,816.80	3,815.56	6,888.66	6,570.02	318.64	21.619	
12,000.00	10,476.23	10,415.23	10,415.23	44.92	277.33	90.36	6,816.80	3,815.56	6,810.80	6,491.60	319.19	21.338	
12,100.00	10,475.73	10,414.73	10,414.73	45.88	277.31	90.35	6,816.80	3,815.56	6,733.52	6,413.74	319.78	21.057	
12,200.00	10,475.22	10,414.22	10,414.22	46.87	277.30	90.34	6,816.80	3,815.56	6,656.84	6,336.44	320.41	20.776	
12,300.00	10,474.72	10,413.72	10,413.72	47.90	277.29	90.33	6,816.80	3,815.56	6,580.80	6,259.72	321.07	20.496	
12,400.00	10,474.22	10,413.22	10,413.22	48.97	277.27	90.33	6,816.80	3,815.56	6,505.40	6,183.62	321.78	20.217	
12,500.00	10,473.71	10,412.71	10,412.71	50.06	277.26	90.32	6,816.80	3,815.56	6,430.67	6,108.14	322.53	19.938	
12,600.00	10,473.21	10,412.21	10,412.21	51.19	277.25	90.31	6,816.80	3,815.56	6,356.64	6,033.32	323.32	19.661	
12,700.00	10,472.70	10,411.70	10,411.70	52.34	277.23	90.31	6,816.80	3,815.56	6,283.32	5,959.18	324.14	19.384	
12,800.00	10,472.20	10,411.20	10,411.20	53.52	277.22	90.30	6,816.80	3,815.56	6,210.75	5,885.74	325.02	19.109	
12,900.00	10,471.70	10,410.70	10,410.70	54.73	277.21	90.29	6,816.80	3,815.56	6,138.96	5,813.02	325.93	18.835	
13,000.00	10,471.19	10,410.19	10,410.19	55.96	277.19	90.29	6,816.80	3,815.56	6,067.96	5,741.06	326.89	18.562	
13,100.00	10,470.69	10,409.69	10,409.69	57.21	277.18	90.28	6,816.80	3,815.56	5,997.78	5,669.89	327.90	18.292	
13,200.00	10,470.19	10,409.19	10,409.19	58.48	277.17	90.27	6,816.80	3,815.56	5,928.47	5,599.53	328.94	18.023	
13,300.00	10,469.68	10,408.68	10,408.68	59.77	277.15	90.27	6,816.80	3,815.56	5,860.04	5,530.01	330.03	17.756	
13,400.00	10,469.18	10,408.18	10,408.18	61.07	277.14	90.26	6,816.80	3,815.56	5,792.53	5,461.36	331.16	17.491	
13,500.00	10,468.68	10,407.68	10,407.68	62.40	277.13	90.25	6,816.80	3,815.56	5,725.97	5,393.63	332.34	17.229	
13,600.00	10,468.18	10,407.18	10,407.18	63.73	277.11	90.25	6,816.80	3,815.56	5,660.39	5,326.83	333.56	16.970	
13,700.00	10,467.67	10,406.67	10,406.67	65.09	277.10	90.24	6,816.80	3,815.56	5,595.83	5,261.01	334.82	16.713	
13,800.00	10,467.17	10,406.17	10,406.17	66.46	277.09	90.23	6,816.80	3,815.56	5,532.33	5,196.20	336.13	16.459	
13,900.00	10,466.67	10,405.67	10,405.67	67.83	277.07	90.23	6,816.80	3,815.56	5,469.91	5,132.43	337.48	16.208	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001

Offset Site Error: 0.00 usft

Survey Program: 14375-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	10,466.17	10,405.17	10,405.17	69.23	277.06	90.22	6,816.80	3,815.56	5,408.63	5,069.76	338.87	15.961	
14,100.00	10,465.67	10,404.67	10,404.67	70.63	277.05	90.21	6,816.80	3,815.56	5,348.51	5,008.21	340.30	15.717	
14,200.00	10,465.17	10,404.17	10,404.17	72.04	277.03	90.21	6,816.80	3,815.56	5,289.60	4,947.83	341.77	15.477	
14,300.00	10,464.66	10,403.66	10,403.66	73.47	277.02	90.20	6,816.80	3,815.56	5,231.94	4,888.66	343.29	15.241	
14,400.00	10,464.16	10,403.16	10,403.16	74.90	277.01	90.19	6,816.80	3,815.56	5,175.57	4,830.74	344.83	15.009	
14,500.00	10,463.66	10,402.66	10,402.66	76.34	276.99	90.19	6,816.80	3,815.56	5,120.54	4,774.11	346.42	14.781	
14,600.00	10,463.16	10,402.16	10,402.16	77.80	276.98	90.18	6,816.80	3,815.56	5,066.87	4,718.83	348.04	14.558	
14,700.00	10,462.66	10,401.66	10,401.66	79.26	276.97	90.17	6,816.80	3,815.56	5,014.63	4,664.93	349.70	14.340	
14,800.00	10,462.16	10,401.16	10,401.16	80.72	276.95	90.17	6,816.80	3,815.56	4,963.85	4,612.47	351.39	14.126	
14,900.00	10,461.66	10,400.66	10,400.66	82.20	276.94	90.16	6,816.80	3,815.56	4,914.59	4,561.48	353.11	13.918	
15,000.00	10,461.16	10,400.16	10,400.16	83.68	276.93	90.15	6,816.80	3,815.56	4,866.88	4,512.02	354.86	13.715	
15,100.00	10,460.66	10,399.66	10,399.66	85.16	276.91	90.15	6,816.80	3,815.56	4,820.77	4,464.14	356.63	13.518	
15,200.00	10,460.16	10,399.16	10,399.16	86.66	276.90	90.14	6,816.80	3,815.56	4,776.31	4,417.88	358.43	13.326	
15,300.00	10,459.66	10,398.66	10,398.66	88.16	276.89	90.13	6,816.80	3,815.56	4,733.55	4,373.30	360.25	13.140	
15,400.00	10,459.16	10,398.16	10,398.16	89.66	276.87	90.13	6,816.80	3,815.56	4,692.52	4,330.44	362.08	12.960	
15,500.00	10,458.66	10,397.66	10,397.66	91.17	276.86	90.12	6,816.80	3,815.56	4,653.29	4,289.36	363.93	12.786	
15,600.00	10,458.16	10,397.16	10,397.16	92.69	276.85	90.11	6,816.80	3,815.56	4,615.89	4,250.09	365.80	12.619	
15,700.00	10,457.66	10,396.66	10,396.66	94.21	276.83	90.11	6,816.80	3,815.56	4,580.37	4,212.70	367.67	12.458	
15,800.00	10,457.16	10,396.16	10,396.16	95.73	276.82	90.10	6,816.80	3,815.56	4,546.77	4,177.22	369.55	12.304	
15,900.00	10,456.66	10,395.66	10,395.66	97.26	276.81	90.09	6,816.80	3,815.56	4,515.13	4,143.71	371.42	12.156	
16,000.00	10,456.16	10,395.16	10,395.16	98.79	276.79	90.09	6,816.80	3,815.56	4,485.50	4,112.21	373.30	12.016	
16,100.00	10,455.66	10,394.66	10,394.66	100.33	276.78	90.08	6,816.80	3,815.56	4,457.92	4,082.76	375.16	11.883	
16,200.00	10,455.16	10,394.16	10,394.16	101.87	276.77	90.07	6,816.80	3,815.56	4,432.42	4,055.40	377.02	11.756	
16,300.00	10,454.67	10,393.67	10,393.67	103.41	276.75	90.07	6,816.80	3,815.56	4,409.05	4,030.19	378.86	11.638	
16,400.00	10,454.17	10,393.17	10,393.17	104.96	276.74	90.06	6,816.80	3,815.56	4,387.83	4,007.15	380.68	11.526	
16,500.00	10,453.67	10,392.67	10,392.67	106.51	276.73	90.05	6,816.80	3,815.56	4,368.79	3,986.31	382.48	11.422	
16,600.00	10,453.17	10,392.17	10,392.17	108.07	276.71	90.05	6,816.80	3,815.56	4,351.97	3,967.73	384.25	11.326	
16,700.00	10,452.67	10,391.67	10,391.67	109.62	276.70	90.04	6,816.80	3,815.56	4,337.40	3,951.41	385.99	11.237	
16,800.00	10,452.17	10,391.17	10,391.17	111.18	276.69	90.03	6,816.80	3,815.56	4,325.08	3,937.40	387.68	11.156	
16,900.00	10,451.68	10,390.68	10,390.68	112.74	276.67	90.03	6,816.80	3,815.56	4,315.05	3,925.71	389.34	11.083	
17,000.00	10,451.18	10,390.18	10,390.18	114.31	276.66	90.02	6,816.80	3,815.56	4,307.32	3,916.36	390.96	11.017	
17,100.00	10,450.68	10,389.68	10,389.68	115.88	276.65	90.01	6,816.80	3,815.56	4,301.90	3,909.37	392.52	10.960	
17,200.00	10,450.18	10,389.18	10,389.18	117.45	276.63	90.01	6,816.80	3,815.56	4,298.80	3,904.76	394.04	10.910	
17,283.36	10,449.77	10,388.77	10,388.77	118.76	276.62	90.00	6,816.80	3,815.56	4,297.99	3,902.72	395.27	10.874	CC
17,300.00	10,449.69	10,388.69	10,388.69	119.02	276.62	90.00	6,816.80	3,815.56	4,298.02	3,902.52	395.50	10.867	ES
17,400.00	10,449.19	10,388.19	10,388.19	120.60	276.61	89.99	6,816.80	3,815.56	4,299.57	3,902.66	396.91	10.833	
17,500.00	10,448.69	10,387.69	10,387.69	122.17	276.59	89.99	6,816.80	3,815.56	4,303.44	3,905.19	398.26	10.806	
17,600.00	10,448.20	10,387.20	10,387.20	123.75	276.58	89.98	6,816.80	3,815.56	4,309.64	3,910.10	399.54	10.787	
17,700.00	10,447.70	10,386.70	10,386.70	125.33	276.57	89.97	6,816.80	3,815.56	4,318.14	3,917.38	400.76	10.775	
17,800.00	10,447.20	10,386.20	10,386.20	126.91	276.55	89.97	6,816.80	3,815.56	4,328.93	3,927.02	401.91	10.771	SF
17,900.00	10,446.71	10,385.71	10,385.71	128.50	276.54	89.96	6,816.80	3,815.56	4,342.00	3,939.00	403.00	10.774	
18,000.00	10,446.21	10,385.21	10,385.21	130.09	276.53	89.95	6,816.80	3,815.56	4,357.33	3,953.31	404.02	10.785	
18,100.00	10,445.71	10,384.71	10,384.71	131.67	276.52	89.95	6,816.80	3,815.56	4,374.88	3,969.92	404.97	10.803	
18,200.00	10,445.22	10,384.22	10,384.22	133.26	276.50	89.94	6,816.80	3,815.56	4,394.65	3,988.80	405.85	10.828	
18,300.00	10,444.72	10,383.72	10,383.72	134.86	276.49	89.93	6,816.80	3,815.56	4,416.59	4,009.93	406.66	10.861	
18,400.00	10,444.23	10,383.23	10,383.23	136.45	276.48	89.93	6,816.80	3,815.56	4,440.68	4,033.26	407.41	10.900	
18,500.00	10,443.73	10,382.73	10,382.73	138.04	276.46	89.92	6,816.80	3,815.56	4,466.87	4,058.77	408.10	10.946	
18,600.00	10,443.24	10,382.24	10,382.24	139.64	276.45	89.91	6,816.80	3,815.56	4,495.14	4,086.42	408.72	10.998	
18,700.00	10,442.74	10,381.74	10,381.74	141.24	276.44	89.91	6,816.80	3,815.56	4,525.44	4,116.17	409.27	11.057	
18,800.00	10,442.25	10,381.25	10,381.25	142.84	276.42	89.90	6,816.80	3,815.56	4,557.73	4,147.97	409.77	11.123	
18,900.00	10,441.75	10,380.75	10,380.75	144.44	276.41	89.89	6,816.80	3,815.56	4,591.98	4,181.78	410.20	11.195	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001 - EXIST VERT OPAL 28 FED #001

Offset Site Error: 0.00 usft

Survey Program: 14375-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	10,441.26	10,380.26	10,380.26	146.04	276.40	89.89	6,816.80	3,815.56	4,628.13	4,217.56	410.57	11.272	
19,100.00	10,440.76	10,379.76	10,379.76	147.64	276.38	89.88	6,816.80	3,815.56	4,666.15	4,255.26	410.88	11.356	
19,200.00	10,440.27	10,379.27	10,379.27	149.24	276.37	89.87	6,816.80	3,815.56	4,705.98	4,294.84	411.15	11.446	
19,300.00	10,439.77	10,378.77	10,378.77	150.85	276.36	89.87	6,816.80	3,815.56	4,747.59	4,336.23	411.36	11.541	
19,400.00	10,439.28	10,378.28	10,378.28	152.45	276.34	89.86	6,816.80	3,815.56	4,790.92	4,379.40	411.52	11.642	
19,500.00	10,438.78	10,377.78	10,377.78	154.06	276.33	89.85	6,816.80	3,815.56	4,835.94	4,424.30	411.64	11.748	
19,600.00	10,438.29	10,377.29	10,377.29	155.67	276.32	89.85	6,816.80	3,815.56	4,882.58	4,470.87	411.71	11.859	
19,700.00	10,437.80	10,376.80	10,376.80	157.28	276.30	89.84	6,816.80	3,815.56	4,930.82	4,519.08	411.74	11.976	
19,800.00	10,437.30	10,376.30	10,376.30	158.89	276.29	89.83	6,816.80	3,815.56	4,980.59	4,568.86	411.73	12.097	
19,900.00	10,436.81	10,375.81	10,375.81	160.50	276.28	89.83	6,816.80	3,815.56	5,031.86	4,620.18	411.68	12.223	
20,000.00	10,436.32	10,375.32	10,375.32	162.11	276.26	89.82	6,816.80	3,815.56	5,084.58	4,672.99	411.59	12.353	
20,100.00	10,435.82	10,374.82	10,374.82	163.72	276.25	89.81	6,816.80	3,815.56	5,138.71	4,727.23	411.48	12.488	
20,200.00	10,435.33	10,374.33	10,374.33	165.34	276.24	89.81	6,816.80	3,815.56	5,194.19	4,782.86	411.33	12.628	
20,300.00	10,434.84	10,373.84	10,373.84	166.95	276.23	89.80	6,816.80	3,815.56	5,251.00	4,839.83	411.16	12.771	
20,400.00	10,434.34	10,373.34	10,373.34	168.57	276.21	89.80	6,816.80	3,815.56	5,309.08	4,898.11	410.97	12.919	
20,500.00	10,433.85	10,372.85	10,372.85	170.18	276.20	89.79	6,816.80	3,815.56	5,368.39	4,957.65	410.74	13.070	
20,600.00	10,433.36	10,372.36	10,372.36	171.80	276.19	89.78	6,816.80	3,815.56	5,428.90	5,018.40	410.50	13.225	
20,700.00	10,432.86	10,371.86	10,371.86	173.42	276.17	89.78	6,816.80	3,815.56	5,490.57	5,080.33	410.23	13.384	
20,800.00	10,432.37	10,371.37	10,371.37	175.04	276.16	89.77	6,816.80	3,815.56	5,553.35	5,143.40	409.95	13.546	
20,875.64	10,432.00	10,371.00	10,371.00	176.26	276.15	89.76	6,816.80	3,815.56	5,601.55	5,191.83	409.72	13.672	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	7.47	8,782.09	1,151.10	8,857.48				
100.00	100.00	30.50	30.50	0.14	0.34	7.47	8,782.09	1,151.10	8,857.21	8,856.74	0.47	N/A	
200.00	200.00	130.50	130.50	0.49	1.80	7.47	8,782.09	1,151.10	8,857.21	8,854.91	2.30	3,855.291	
300.00	300.00	230.50	230.50	0.85	4.05	7.47	8,782.09	1,151.10	8,857.21	8,852.31	4.90	1,808.586	
400.00	400.00	330.50	330.50	1.21	6.11	7.47	8,782.09	1,151.10	8,857.21	8,849.88	7.32	1,209.289	
500.00	500.00	430.50	430.50	1.57	8.15	7.47	8,782.09	1,151.10	8,857.21	8,847.49	9.72	911.118	
600.00	600.00	530.50	530.50	1.93	10.18	7.47	8,782.09	1,151.10	8,857.21	8,845.10	12.11	731.581	
700.00	700.00	630.50	630.50	2.29	12.20	7.47	8,782.09	1,151.10	8,857.21	8,842.72	14.49	611.384	
800.00	800.00	730.50	730.50	2.64	14.22	7.47	8,782.09	1,151.10	8,857.21	8,840.34	16.86	525.206	
900.00	900.00	830.50	830.50	3.00	16.24	7.47	8,782.09	1,151.10	8,857.21	8,837.97	19.24	460.368	
1,000.00	1,000.00	930.50	930.50	3.36	18.25	7.47	8,782.09	1,151.10	8,857.21	8,835.59	21.61	409.803	
1,100.00	1,100.00	1,030.50	1,030.50	3.72	20.27	7.47	8,782.09	1,151.10	8,857.21	8,833.22	23.99	369.261	
1,200.00	1,200.00	1,130.50	1,130.50	4.08	22.28	7.47	8,782.09	1,151.10	8,857.21	8,830.85	26.36	336.027	
1,300.00	1,300.00	1,230.50	1,230.50	4.44	24.29	7.47	8,782.09	1,151.10	8,857.21	8,828.48	28.73	308.286	
1,400.00	1,400.00	1,330.50	1,330.50	4.80	26.31	7.47	8,782.09	1,151.10	8,857.21	8,826.10	31.10	284.779	
1,500.00	1,500.00	1,430.50	1,430.50	5.15	28.32	7.47	8,782.09	1,151.10	8,857.21	8,823.73	33.47	264.606	
1,600.00	1,600.00	1,530.50	1,530.50	5.51	30.33	7.47	8,782.09	1,151.10	8,857.21	8,821.36	35.84	247.103	
1,700.00	1,700.00	1,630.50	1,630.50	5.87	32.34	7.47	8,782.09	1,151.10	8,857.21	8,818.99	38.21	231.774	
1,800.00	1,800.00	1,730.50	1,730.50	6.23	34.36	7.47	8,782.09	1,151.10	8,857.21	8,816.62	40.59	218.236	
1,900.00	1,900.00	1,830.50	1,830.50	6.59	36.37	7.47	8,782.09	1,151.10	8,857.21	8,814.25	42.96	206.193	
2,000.00	2,000.00	1,930.50	1,930.50	6.95	38.38	7.47	8,782.09	1,151.10	8,857.21	8,811.88	45.33	195.410	
2,100.00	2,100.00	2,030.50	2,030.50	7.30	40.39	7.47	8,782.09	1,151.10	8,857.21	8,809.51	47.70	185.699	
2,200.00	2,200.00	2,130.50	2,130.50	7.66	42.40	7.47	8,782.09	1,151.10	8,857.21	8,807.14	50.07	176.908	
2,300.00	2,299.98	2,230.48	2,230.48	8.01	44.41	123.45	8,782.09	1,151.10	8,858.17	8,805.75	52.42	168.972	
2,400.00	2,399.84	2,330.34	2,330.34	8.34	46.42	123.43	8,782.09	1,151.10	8,861.06	8,806.29	54.77	161.793	
2,500.00	2,499.45	2,429.95	2,429.95	8.68	48.43	123.40	8,782.09	1,151.10	8,865.87	8,808.76	57.11	155.240	
2,600.00	2,598.70	2,529.20	2,529.20	9.03	50.42	123.35	8,782.09	1,151.10	8,872.61	8,813.16	59.45	149.243	
2,700.00	2,697.47	2,627.97	2,627.97	9.38	52.41	123.29	8,782.09	1,151.10	8,881.28	8,819.49	61.79	143.740	
2,800.00	2,795.62	2,726.12	2,726.12	9.75	54.38	123.21	8,782.09	1,151.10	8,891.88	8,827.76	64.12	138.677	
2,900.00	2,893.44	2,823.94	2,823.94	10.13	56.35	123.32	8,782.09	1,151.10	8,903.46	8,837.00	66.45	133.981	
3,000.00	2,991.25	2,921.75	2,921.75	10.51	58.32	123.43	8,782.09	1,151.10	8,915.07	8,846.28	68.79	129.592	
3,100.00	3,089.07	3,019.57	3,019.57	10.91	60.29	123.54	8,782.09	1,151.10	8,926.72	8,855.58	71.14	125.481	
3,200.00	3,186.88	3,117.38	3,117.38	11.31	62.25	123.65	8,782.09	1,151.10	8,938.40	8,864.91	73.49	121.623	
3,300.00	3,284.70	3,215.20	3,215.20	11.72	64.22	123.76	8,782.09	1,151.10	8,950.12	8,874.27	75.85	117.997	
3,400.00	3,382.51	3,313.01	3,313.01	12.14	66.19	123.87	8,782.09	1,151.10	8,961.86	8,883.65	78.21	114.583	
3,500.00	3,480.33	3,410.83	3,410.83	12.56	68.16	123.98	8,782.09	1,151.10	8,973.64	8,893.06	80.58	111.364	
3,600.00	3,578.14	3,508.64	3,508.64	12.99	70.12	124.09	8,782.09	1,151.10	8,985.46	8,902.51	82.95	108.325	
3,700.00	3,675.96	3,606.46	3,606.46	13.42	72.09	124.20	8,782.09	1,151.10	8,997.30	8,911.98	85.32	105.450	
3,800.00	3,773.77	3,704.27	3,704.27	13.86	74.06	124.30	8,782.09	1,151.10	9,009.18	8,921.48	87.70	102.728	
3,900.00	3,871.59	3,802.09	3,802.09	14.30	76.02	124.41	8,782.09	1,151.10	9,021.09	8,931.01	90.08	100.147	
4,000.00	3,969.40	3,899.90	3,899.90	14.75	77.99	124.52	8,782.09	1,151.10	9,033.03	8,940.57	92.46	97.697	
4,100.00	4,067.22	3,997.72	3,997.72	15.19	79.96	124.62	8,782.09	1,151.10	9,045.01	8,950.16	94.84	95.368	
4,200.00	4,165.03	4,095.53	4,095.53	15.64	81.93	124.73	8,782.09	1,151.10	9,057.01	8,959.78	97.23	93.151	
4,300.00	4,262.84	4,193.34	4,193.34	16.10	83.89	124.84	8,782.09	1,151.10	9,069.05	8,969.43	99.62	91.039	
4,400.00	4,360.66	4,291.16	4,291.16	16.55	85.86	124.94	8,782.09	1,151.10	9,081.12	8,979.11	102.01	89.026	
4,500.00	4,458.47	4,388.97	4,388.97	17.01	87.83	125.05	8,782.09	1,151.10	9,093.22	8,988.83	104.40	87.103	
4,529.32	4,487.15	4,417.65	4,417.65	17.14	88.40	125.08	8,782.09	1,151.10	9,096.78	8,991.68	105.10	86.556	
4,600.00	4,556.46	4,486.96	4,486.96	17.46	89.80	125.28	8,782.09	1,151.10	9,104.85	8,998.07	106.79	85.261	
4,700.00	4,655.06	4,585.56	4,585.56	17.90	91.78	125.53	8,782.09	1,151.10	9,114.59	9,005.42	109.18	83.485	
4,800.00	4,754.18	4,684.68	4,684.68	18.31	93.77	125.72	8,782.09	1,151.10	9,122.33	9,010.77	111.56	81.770	
4,900.00	4,853.70	4,784.20	4,784.20	18.69	95.78	125.86	8,782.09	1,151.10	9,128.04	9,014.10	113.94	80.116	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	4,884.00	4,884.00	19.05	97.78	125.95	8,782.09	1,151.10	9,131.71	9,015.41	116.30	78.518	
5,100.00	5,053.46	4,983.96	4,983.96	19.39	99.79	125.99	8,782.09	1,151.10	9,133.34	9,014.69	118.65	76.976	
5,129.32	5,082.78	5,013.28	5,013.28	19.49	100.38	10.01	8,782.09	1,151.10	9,133.43	9,014.09	119.34	76.534	
5,200.00	5,153.46	5,083.96	5,083.96	19.71	101.80	10.01	8,782.09	1,151.10	9,133.43	9,012.44	120.99	75.488	
5,300.00	5,253.46	5,183.96	5,183.96	20.04	103.82	10.01	8,782.09	1,151.10	9,133.43	9,010.10	123.33	74.056	
5,400.00	5,353.46	5,283.96	5,283.96	20.36	105.83	10.01	8,782.09	1,151.10	9,133.43	9,007.76	125.67	72.677	
5,500.00	5,453.46	5,383.96	5,383.96	20.68	107.84	10.01	8,782.09	1,151.10	9,133.43	9,005.42	128.01	71.347	
5,600.00	5,553.46	5,483.96	5,483.96	21.00	109.85	10.01	8,782.09	1,151.10	9,133.43	9,003.07	130.36	70.065	
5,700.00	5,653.46	5,583.96	5,583.96	21.33	111.86	10.01	8,782.09	1,151.10	9,133.43	9,000.73	132.70	68.828	
5,800.00	5,753.46	5,683.96	5,683.96	21.65	113.87	10.01	8,782.09	1,151.10	9,133.43	8,998.38	135.04	67.633	
5,900.00	5,853.46	5,783.96	5,783.96	21.98	115.88	10.01	8,782.09	1,151.10	9,133.43	8,996.04	137.39	66.478	
6,000.00	5,953.46	5,883.96	5,883.96	22.31	117.89	10.01	8,782.09	1,151.10	9,133.43	8,993.69	139.74	65.362	
6,100.00	6,053.46	5,983.96	5,983.96	22.64	119.90	10.01	8,782.09	1,151.10	9,133.43	8,991.35	142.08	64.283	
6,200.00	6,153.46	6,083.96	6,083.96	22.97	121.92	10.01	8,782.09	1,151.10	9,133.43	8,989.00	144.43	63.238	
6,300.00	6,253.46	6,183.96	6,183.96	23.30	123.93	10.01	8,782.09	1,151.10	9,133.43	8,986.65	146.78	62.226	
6,400.00	6,353.46	6,283.96	6,283.96	23.63	125.94	10.01	8,782.09	1,151.10	9,133.43	8,984.30	149.13	61.246	
6,500.00	6,453.46	6,383.96	6,383.96	23.96	127.95	10.01	8,782.09	1,151.10	9,133.43	8,981.95	151.48	60.296	
6,600.00	6,553.46	6,483.96	6,483.96	24.30	129.96	10.01	8,782.09	1,151.10	9,133.43	8,979.60	153.83	59.375	
6,700.00	6,653.46	6,583.96	6,583.96	24.63	131.97	10.01	8,782.09	1,151.10	9,133.43	8,977.25	156.18	58.482	
6,800.00	6,753.46	6,683.96	6,683.96	24.96	133.98	10.01	8,782.09	1,151.10	9,133.43	8,974.90	158.53	57.614	
6,900.00	6,853.46	6,783.96	6,783.96	25.30	135.99	10.01	8,782.09	1,151.10	9,133.43	8,972.55	160.88	56.772	
7,000.00	6,953.46	6,883.96	6,883.96	25.64	138.00	10.01	8,782.09	1,151.10	9,133.43	8,970.20	163.23	55.954	
7,100.00	7,053.46	6,983.96	6,983.96	25.97	140.01	10.01	8,782.09	1,151.10	9,133.43	8,967.85	165.58	55.159	
7,200.00	7,153.46	7,083.96	7,083.96	26.31	142.03	10.01	8,782.09	1,151.10	9,133.43	8,965.49	167.94	54.386	
7,300.00	7,253.46	7,183.96	7,183.96	26.65	144.04	10.01	8,782.09	1,151.10	9,133.43	8,963.14	170.29	53.635	
7,400.00	7,353.46	7,283.96	7,283.96	26.98	146.05	10.01	8,782.09	1,151.10	9,133.43	8,960.79	172.64	52.903	
7,500.00	7,453.46	7,383.96	7,383.96	27.32	148.06	10.01	8,782.09	1,151.10	9,133.43	8,958.43	175.00	52.192	
7,600.00	7,553.46	7,483.96	7,483.96	27.66	150.07	10.01	8,782.09	1,151.10	9,133.43	8,956.08	177.35	51.499	
7,700.00	7,653.46	7,583.96	7,583.96	28.00	152.08	10.01	8,782.09	1,151.10	9,133.43	8,953.72	179.71	50.824	
7,800.00	7,753.46	7,683.96	7,683.96	28.34	154.09	10.01	8,782.09	1,151.10	9,133.43	8,951.37	182.06	50.166	
7,900.00	7,853.46	7,783.96	7,783.96	28.68	156.10	10.01	8,782.09	1,151.10	9,133.43	8,949.01	184.42	49.526	
8,000.00	7,953.46	7,883.96	7,883.96	29.02	158.11	10.01	8,782.09	1,151.10	9,133.43	8,946.65	186.77	48.901	
8,100.00	8,053.46	7,983.96	7,983.96	29.36	160.12	10.01	8,782.09	1,151.10	9,133.43	8,944.30	189.13	48.292	
8,200.00	8,153.46	8,083.96	8,083.96	29.71	162.14	10.01	8,782.09	1,151.10	9,133.43	8,941.94	191.49	47.697	
8,300.00	8,253.46	8,183.96	8,183.96	30.05	164.15	10.01	8,782.09	1,151.10	9,133.43	8,939.58	193.84	47.117	
8,400.00	8,353.46	8,283.96	8,283.96	30.39	166.16	10.01	8,782.09	1,151.10	9,133.43	8,937.23	196.20	46.551	
8,500.00	8,453.46	8,383.96	8,383.96	30.73	168.17	10.01	8,782.09	1,151.10	9,133.43	8,934.87	198.56	45.999	
8,600.00	8,553.46	8,483.96	8,483.96	31.08	170.18	10.01	8,782.09	1,151.10	9,133.43	8,932.51	200.92	45.459	
8,700.00	8,653.46	8,583.96	8,583.96	31.42	172.19	10.01	8,782.09	1,151.10	9,133.43	8,930.15	203.28	44.931	
8,800.00	8,753.46	8,683.96	8,683.96	31.76	174.20	10.01	8,782.09	1,151.10	9,133.43	8,927.80	205.63	44.416	
8,900.00	8,853.46	8,783.96	8,783.96	32.11	176.21	10.01	8,782.09	1,151.10	9,133.43	8,925.44	207.99	43.912	
9,000.00	8,953.46	8,883.96	8,883.96	32.45	178.22	10.01	8,782.09	1,151.10	9,133.43	8,923.08	210.35	43.420	
9,100.00	9,053.46	8,983.96	8,983.96	32.80	180.23	10.01	8,782.09	1,151.10	9,133.43	8,920.72	212.71	42.938	
9,200.00	9,153.46	9,083.96	9,083.96	33.14	182.24	10.01	8,782.09	1,151.10	9,133.43	8,918.36	215.07	42.467	
9,300.00	9,253.46	9,183.96	9,183.96	33.49	184.26	10.01	8,782.09	1,151.10	9,133.43	8,916.00	217.43	42.007	
9,400.00	9,353.46	9,283.96	9,283.96	33.83	186.27	10.01	8,782.09	1,151.10	9,133.43	8,913.64	219.79	41.556	
9,500.00	9,453.46	9,383.96	9,383.96	34.18	188.28	10.01	8,782.09	1,151.10	9,133.43	8,911.28	222.15	41.114	
9,600.00	9,553.46	9,483.96	9,483.96	34.53	190.29	10.01	8,782.09	1,151.10	9,133.43	8,908.92	224.51	40.682	
9,700.00	9,653.46	9,583.96	9,583.96	34.87	192.30	10.01	8,782.09	1,151.10	9,133.43	8,906.56	226.87	40.259	
9,800.00	9,753.46	9,683.96	9,683.96	35.22	194.31	10.01	8,782.09	1,151.10	9,133.43	8,904.20	229.23	39.844	
9,900.00	9,853.46	9,783.96	9,783.96	35.57	196.32	10.01	8,782.09	1,151.10	9,133.43	8,901.84	231.59	39.438	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,955.59	9,909.05	9,839.55	9,839.55	35.76	197.44	10.01	8,782.09	1,151.10	9,133.43	8,900.53	232.90	39.216	
10,000.00	9,953.41	9,883.91	9,883.91	35.91	198.33	10.42	8,782.09	1,151.10	9,131.74	8,897.79	233.95	39.033	
10,050.00	10,003.03	9,933.53	9,933.53	36.08	199.33	10.53	8,782.09	1,151.10	9,125.80	8,890.68	235.12	38.813	
10,100.00	10,051.93	9,982.43	9,982.43	36.23	200.31	10.74	8,782.09	1,151.10	9,115.62	8,879.35	236.27	38.581	
10,150.00	10,099.75	10,030.25	10,030.25	36.38	201.27	11.04	8,782.09	1,151.10	9,101.30	8,863.90	237.40	38.338	
10,200.00	10,146.11	10,076.61	10,076.61	36.52	202.21	11.45	8,782.09	1,151.10	9,082.93	8,844.45	238.48	38.086	
10,250.00	10,190.67	10,121.17	10,121.17	36.64	203.10	11.98	8,782.09	1,151.10	9,060.66	8,821.14	239.53	37.828	
10,300.00	10,233.09	10,163.59	10,163.59	36.75	203.96	12.67	8,782.09	1,151.10	9,034.66	8,794.15	240.51	37.564	
10,350.00	10,273.04	10,203.54	10,203.54	36.85	204.76	13.54	8,782.09	1,151.10	9,005.12	8,763.68	241.44	37.297	
10,400.00	10,310.22	10,240.72	10,240.72	36.94	205.51	14.65	8,782.09	1,151.10	8,972.28	8,729.98	242.30	37.030	
10,450.00	10,344.35	10,274.85	10,274.85	37.01	206.19	16.08	8,782.09	1,151.10	8,936.38	8,693.30	243.09	36.762	
10,500.00	10,375.16	10,305.66	10,305.66	37.07	206.81	17.94	8,782.09	1,151.10	8,897.70	8,653.91	243.79	36.497	
10,550.00	10,402.43	10,332.93	10,332.93	37.11	207.36	20.41	8,782.09	1,151.10	8,856.54	8,612.12	244.42	36.235	
10,600.00	10,425.94	10,356.44	10,356.44	37.15	207.83	23.79	8,782.09	1,151.10	8,813.20	8,568.24	244.96	35.978	
10,650.00	10,445.52	10,376.02	10,376.02	37.19	208.23	28.56	8,782.09	1,151.10	8,768.03	8,522.62	245.41	35.728	
10,700.00	10,461.01	10,391.51	10,391.51	37.23	208.54	35.63	8,782.09	1,151.10	8,721.36	8,475.59	245.77	35.486	
10,750.00	10,472.31	10,402.81	10,402.81	37.30	208.77	46.53	8,782.09	1,151.10	8,673.54	8,427.51	246.04	35.253	
10,800.00	10,479.31	10,409.81	10,409.81	37.41	208.91	63.52	8,782.09	1,151.10	8,624.96	8,378.75	246.21	35.031	
10,850.00	10,481.98	10,412.48	10,412.48	37.55	208.96	87.14	8,782.09	1,151.10	8,575.97	8,329.67	246.30	34.820	
10,858.49	10,482.00	10,412.50	10,412.50	37.57	208.96	91.48	8,782.09	1,151.10	8,567.63	8,321.33	246.30	34.785	
10,900.00	10,481.79	10,412.29	10,412.29	37.70	208.96	91.47	8,782.09	1,151.10	8,526.90	8,280.58	246.33	34.616	
11,000.00	10,481.28	10,411.78	10,411.78	38.06	208.95	91.46	8,782.09	1,151.10	8,428.81	8,182.43	246.38	34.210	
11,100.00	10,480.78	10,411.28	10,411.28	38.49	208.94	91.44	8,782.09	1,151.10	8,330.76	8,084.32	246.44	33.804	
11,200.00	10,480.27	10,410.77	10,410.77	38.98	208.93	91.42	8,782.09	1,151.10	8,232.76	7,986.25	246.51	33.397	
11,300.00	10,479.77	10,410.27	10,410.27	39.53	208.92	91.40	8,782.09	1,151.10	8,134.80	7,888.22	246.59	32.990	
11,400.00	10,479.26	10,409.76	10,409.76	40.14	208.91	91.38	8,782.09	1,151.10	8,036.90	7,790.23	246.67	32.582	
11,500.00	10,478.76	10,409.26	10,409.26	40.81	208.90	91.37	8,782.09	1,151.10	7,939.05	7,692.30	246.75	32.174	
11,600.00	10,478.25	10,408.75	10,408.75	41.54	208.89	91.35	8,782.09	1,151.10	7,841.25	7,594.41	246.84	31.766	
11,700.00	10,477.75	10,408.25	10,408.25	42.31	208.88	91.33	8,782.09	1,151.10	7,743.51	7,496.57	246.94	31.357	
11,800.00	10,477.24	10,407.74	10,407.74	43.14	208.87	91.31	8,782.09	1,151.10	7,645.83	7,398.78	247.05	30.948	
11,900.00	10,476.74	10,407.24	10,407.24	44.01	208.86	91.29	8,782.09	1,151.10	7,548.21	7,301.04	247.17	30.539	
12,000.00	10,476.23	10,406.73	10,406.73	44.92	208.85	91.28	8,782.09	1,151.10	7,450.65	7,203.36	247.29	30.129	
12,100.00	10,475.73	10,406.23	10,406.23	45.88	208.84	91.26	8,782.09	1,151.10	7,353.15	7,105.73	247.42	29.719	
12,200.00	10,475.22	10,405.72	10,405.72	46.87	208.83	91.24	8,782.09	1,151.10	7,255.73	7,008.17	247.56	29.309	
12,300.00	10,474.72	10,405.22	10,405.22	47.90	208.82	91.22	8,782.09	1,151.10	7,158.38	6,910.66	247.71	28.898	
12,400.00	10,474.22	10,404.72	10,404.72	48.97	208.81	91.20	8,782.09	1,151.10	7,061.10	6,813.22	247.87	28.487	
12,500.00	10,473.71	10,404.21	10,404.21	50.06	208.79	91.19	8,782.09	1,151.10	6,963.89	6,715.85	248.04	28.076	
12,600.00	10,473.21	10,403.71	10,403.71	51.19	208.78	91.17	8,782.09	1,151.10	6,866.77	6,618.55	248.22	27.664	
12,700.00	10,472.70	10,403.20	10,403.20	52.34	208.77	91.15	8,782.09	1,151.10	6,769.73	6,521.32	248.41	27.252	
12,800.00	10,472.20	10,402.70	10,402.70	53.52	208.76	91.13	8,782.09	1,151.10	6,672.78	6,424.16	248.62	26.839	
12,900.00	10,471.70	10,402.20	10,402.20	54.73	208.75	91.11	8,782.09	1,151.10	6,575.92	6,327.09	248.83	26.427	
13,000.00	10,471.19	10,401.69	10,401.69	55.96	208.74	91.10	8,782.09	1,151.10	6,479.16	6,230.10	249.06	26.015	
13,100.00	10,470.69	10,401.19	10,401.19	57.21	208.73	91.08	8,782.09	1,151.10	6,382.49	6,133.19	249.30	25.602	
13,200.00	10,470.19	10,400.69	10,400.69	58.48	208.72	91.06	8,782.09	1,151.10	6,285.93	6,036.37	249.55	25.189	
13,300.00	10,469.68	10,400.18	10,400.18	59.77	208.71	91.04	8,782.09	1,151.10	6,189.48	5,939.65	249.83	24.775	
13,400.00	10,469.18	10,399.68	10,399.68	61.07	208.70	91.03	8,782.09	1,151.10	6,093.14	5,843.03	250.11	24.362	
13,500.00	10,468.68	10,399.18	10,399.18	62.40	208.69	91.01	8,782.09	1,151.10	5,996.92	5,746.51	250.41	23.948	
13,600.00	10,468.18	10,398.68	10,398.68	63.73	208.68	90.99	8,782.09	1,151.10	5,900.83	5,650.10	250.74	23.534	
13,700.00	10,467.67	10,398.17	10,398.17	65.09	208.67	90.97	8,782.09	1,151.10	5,804.87	5,553.80	251.07	23.120	
13,800.00	10,467.17	10,397.67	10,397.67	66.46	208.66	90.95	8,782.09	1,151.10	5,709.05	5,457.62	251.43	22.706	
13,900.00	10,466.67	10,397.17	10,397.17	67.83	208.65	90.94	8,782.09	1,151.10	5,613.38	5,361.56	251.82	22.292	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	10,466.17	10,396.67	10,396.67	69.23	208.64	90.92	8,782.09	1,151.10	5,517.86	5,265.63	252.22	21.877	
14,100.00	10,465.67	10,396.17	10,396.17	70.63	208.63	90.90	8,782.09	1,151.10	5,422.49	5,169.85	252.65	21.463	
14,200.00	10,465.17	10,395.67	10,395.67	72.04	208.62	90.88	8,782.09	1,151.10	5,327.30	5,074.21	253.10	21.048	
14,300.00	10,464.66	10,395.16	10,395.16	73.47	208.61	90.87	8,782.09	1,151.10	5,232.29	4,978.72	253.57	20.634	
14,400.00	10,464.16	10,394.66	10,394.66	74.90	208.60	90.85	8,782.09	1,151.10	5,137.47	4,883.40	254.07	20.220	
14,500.00	10,463.66	10,394.16	10,394.16	76.34	208.59	90.83	8,782.09	1,151.10	5,042.85	4,788.25	254.60	19.807	
14,600.00	10,463.16	10,393.66	10,393.66	77.80	208.58	90.81	8,782.09	1,151.10	4,948.44	4,693.27	255.17	19.393	
14,700.00	10,462.66	10,393.16	10,393.16	79.26	208.57	90.80	8,782.09	1,151.10	4,854.26	4,598.49	255.76	18.979	
14,800.00	10,462.16	10,392.66	10,392.66	80.72	208.56	90.78	8,782.09	1,151.10	4,760.31	4,503.91	256.40	18.566	
14,900.00	10,461.66	10,392.16	10,392.16	82.20	208.55	90.76	8,782.09	1,151.10	4,666.61	4,409.54	257.07	18.153	
15,000.00	10,461.16	10,391.66	10,391.66	83.68	208.54	90.74	8,782.09	1,151.10	4,573.18	4,315.40	257.78	17.741	
15,100.00	10,460.66	10,391.16	10,391.16	85.16	208.53	90.73	8,782.09	1,151.10	4,480.03	4,221.51	258.52	17.329	
15,200.00	10,460.16	10,390.66	10,390.66	86.66	208.52	90.71	8,782.09	1,151.10	4,387.19	4,127.88	259.31	16.918	
15,300.00	10,459.66	10,390.16	10,390.16	88.16	208.51	90.69	8,782.09	1,151.10	4,294.66	4,034.51	260.15	16.508	
15,400.00	10,459.16	10,389.66	10,389.66	89.66	208.50	90.67	8,782.09	1,151.10	4,202.48	3,941.44	261.04	16.099	
15,500.00	10,458.66	10,389.16	10,389.16	91.17	208.49	90.65	8,782.09	1,151.10	4,110.67	3,848.69	261.98	15.691	
15,600.00	10,458.16	10,388.66	10,388.66	92.69	208.48	90.64	8,782.09	1,151.10	4,019.24	3,756.26	262.98	15.283	
15,700.00	10,457.66	10,388.16	10,388.16	94.21	208.47	90.62	8,782.09	1,151.10	3,928.24	3,664.20	264.03	14.878	
15,800.00	10,457.16	10,387.66	10,387.66	95.73	208.46	90.60	8,782.09	1,151.10	3,837.68	3,572.52	265.15	14.473	
15,900.00	10,456.66	10,387.16	10,387.16	97.26	208.45	90.58	8,782.09	1,151.10	3,747.60	3,481.26	266.34	14.071	
16,000.00	10,456.16	10,386.66	10,386.66	98.79	208.44	90.57	8,782.09	1,151.10	3,658.03	3,390.44	267.60	13.670	
16,100.00	10,455.66	10,386.16	10,386.16	100.33	208.43	90.55	8,782.09	1,151.10	3,569.02	3,300.09	268.93	13.271	
16,200.00	10,455.16	10,385.66	10,385.66	101.87	208.42	90.53	8,782.09	1,151.10	3,480.61	3,210.27	270.34	12.875	
16,300.00	10,454.67	10,385.17	10,385.17	103.41	208.41	90.51	8,782.09	1,151.10	3,392.84	3,121.00	271.84	12.481	
16,400.00	10,454.17	10,384.67	10,384.67	104.96	208.40	90.50	8,782.09	1,151.10	3,305.77	3,032.33	273.44	12.090	
16,500.00	10,453.67	10,384.17	10,384.17	106.51	208.39	90.48	8,782.09	1,151.10	3,219.44	2,944.31	275.13	11.702	
16,600.00	10,453.17	10,383.67	10,383.67	108.07	208.38	90.46	8,782.09	1,151.10	3,133.93	2,857.01	276.92	11.317	
16,700.00	10,452.67	10,383.17	10,383.17	109.62	208.37	90.44	8,782.09	1,151.10	3,049.30	2,770.48	278.82	10.936	
16,800.00	10,452.17	10,382.67	10,382.67	111.18	208.36	90.43	8,782.09	1,151.10	2,965.63	2,684.79	280.84	10.560	
16,900.00	10,451.68	10,382.18	10,382.18	112.74	208.35	90.41	8,782.09	1,151.10	2,883.00	2,600.03	282.97	10.188	
17,000.00	10,451.18	10,381.68	10,381.68	114.31	208.34	90.39	8,782.09	1,151.10	2,801.50	2,516.26	285.24	9.822	
17,100.00	10,450.68	10,381.18	10,381.18	115.88	208.33	90.37	8,782.09	1,151.10	2,721.24	2,433.60	287.64	9.461	
17,200.00	10,450.18	10,380.68	10,380.68	117.45	208.32	90.36	8,782.09	1,151.10	2,642.32	2,352.13	290.18	9.106	
17,300.00	10,449.69	10,380.19	10,380.19	119.02	208.31	90.34	8,782.09	1,151.10	2,564.87	2,272.00	292.87	8.758	
17,400.00	10,449.19	10,379.69	10,379.69	120.60	208.30	90.32	8,782.09	1,151.10	2,489.03	2,193.32	295.71	8.417	
17,500.00	10,448.69	10,379.19	10,379.19	122.17	208.29	90.31	8,782.09	1,151.10	2,414.96	2,116.25	298.71	8.085	
17,600.00	10,448.20	10,378.70	10,378.70	123.75	208.28	90.29	8,782.09	1,151.10	2,342.80	2,040.95	301.86	7.761	
17,700.00	10,447.70	10,378.20	10,378.20	125.33	208.27	90.27	8,782.09	1,151.10	2,272.76	1,967.60	305.16	7.448	
17,800.00	10,447.20	10,377.70	10,377.70	126.91	208.26	90.25	8,782.09	1,151.10	2,205.03	1,896.41	308.62	7.145	
17,900.00	10,446.71	10,377.21	10,377.21	128.50	208.25	90.24	8,782.09	1,151.10	2,139.83	1,827.61	312.23	6.853	
18,000.00	10,446.21	10,376.71	10,376.71	130.09	208.24	90.22	8,782.09	1,151.10	2,077.40	1,761.43	315.97	6.575	
18,100.00	10,445.71	10,376.21	10,376.21	131.67	208.23	90.20	8,782.09	1,151.10	2,018.00	1,698.17	319.83	6.310	
18,200.00	10,445.22	10,375.72	10,375.72	133.26	208.22	90.18	8,782.09	1,151.10	1,961.90	1,638.12	323.78	6.059	
18,300.00	10,444.72	10,375.22	10,375.22	134.86	208.21	90.17	8,782.09	1,151.10	1,909.39	1,581.60	327.79	5.825	
18,400.00	10,444.23	10,374.73	10,374.73	136.45	208.20	90.15	8,782.09	1,151.10	1,860.77	1,528.95	331.82	5.608	
18,500.00	10,443.73	10,374.23	10,374.23	138.04	208.19	90.13	8,782.09	1,151.10	1,816.37	1,480.54	335.82	5.409	
18,600.00	10,443.24	10,373.74	10,373.74	139.64	208.18	90.11	8,782.09	1,151.10	1,776.49	1,436.76	339.73	5.229	
18,700.00	10,442.74	10,373.24	10,373.24	141.24	208.17	90.10	8,782.09	1,151.10	1,741.44	1,397.95	343.49	5.070	
18,800.00	10,442.25	10,372.75	10,372.75	142.84	208.16	90.08	8,782.09	1,151.10	1,711.53	1,364.52	347.01	4.932	
18,900.00	10,441.75	10,372.25	10,372.25	144.44	208.15	90.06	8,782.09	1,151.10	1,687.03	1,336.79	350.24	4.817	
19,000.00	10,441.26	10,371.76	10,371.76	146.04	208.14	90.05	8,782.09	1,151.10	1,668.16	1,315.09	353.08	4.725	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - EXIST VERT TOMAHAWK 28 FEDERAL #1 - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,100.00	10,440.76	10,371.26	10,371.26	147.64	208.13	90.03	8,782.09	1,151.10	1,655.14	1,299.67	355.47	4.656	
19,200.00	10,440.27	10,370.77	10,370.77	149.24	208.12	90.01	8,782.09	1,151.10	1,648.09	1,290.73	357.36	4.612	
19,266.42	10,439.94	10,370.44	10,370.44	150.31	208.12	90.00	8,782.09	1,151.10	1,646.75	1,288.43	358.32	4.596	CC
19,300.00	10,439.77	10,370.27	10,370.27	150.85	208.11	89.99	8,782.09	1,151.10	1,647.09	1,288.38	358.72	4.592	ES, SF
19,400.00	10,439.28	10,369.78	10,369.78	152.45	208.10	89.98	8,782.09	1,151.10	1,652.16	1,292.66	359.50	4.596	
19,500.00	10,438.78	10,369.28	10,369.28	154.06	208.09	89.96	8,782.09	1,151.10	1,663.23	1,303.51	359.72	4.624	
19,600.00	10,438.29	10,368.79	10,368.79	155.67	208.08	89.94	8,782.09	1,151.10	1,680.20	1,320.79	359.40	4.675	
19,700.00	10,437.80	10,368.30	10,368.30	157.28	208.07	89.93	8,782.09	1,151.10	1,702.87	1,344.29	358.58	4.749	
19,800.00	10,437.30	10,367.80	10,367.80	158.89	208.06	89.91	8,782.09	1,151.10	1,731.04	1,373.74	357.30	4.845	
19,900.00	10,436.81	10,367.31	10,367.31	160.50	208.05	89.89	8,782.09	1,151.10	1,764.43	1,408.79	355.64	4.961	
20,000.00	10,436.32	10,366.82	10,366.82	162.11	208.04	89.87	8,782.09	1,151.10	1,802.75	1,449.11	353.64	5.098	
20,100.00	10,435.82	10,366.32	10,366.32	163.72	208.03	89.86	8,782.09	1,151.10	1,845.71	1,494.32	351.39	5.253	
20,200.00	10,435.33	10,365.83	10,365.83	165.34	208.02	89.84	8,782.09	1,151.10	1,892.97	1,544.04	348.93	5.425	
20,300.00	10,434.84	10,365.34	10,365.34	166.95	208.01	89.82	8,782.09	1,151.10	1,944.24	1,597.90	346.34	5.614	
20,400.00	10,434.34	10,364.84	10,364.84	168.57	208.00	89.81	8,782.09	1,151.10	1,999.19	1,655.53	343.66	5.817	
20,500.00	10,433.85	10,364.35	10,364.35	170.18	207.99	89.79	8,782.09	1,151.10	2,057.54	1,716.61	340.93	6.035	
20,600.00	10,433.36	10,363.86	10,363.86	171.80	207.98	89.77	8,782.09	1,151.10	2,119.01	1,780.82	338.19	6.266	
20,700.00	10,432.86	10,363.36	10,363.36	173.42	207.97	89.75	8,782.09	1,151.10	2,183.33	1,847.85	335.47	6.508	
20,800.00	10,432.37	10,362.87	10,362.87	175.04	207.96	89.74	8,782.09	1,151.10	2,250.25	1,917.45	332.80	6.762	
20,875.64	10,432.00	10,362.50	10,362.50	176.26	207.96	89.72	8,782.09	1,151.10	2,302.46	1,971.65	330.81	6.960	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 301H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	14.00	14.00	0.00	0.02	83.37	331.41	2,852.52	2,871.71				
100.00	100.00	114.00	114.00	0.14	0.18	83.37	331.41	2,852.52	2,871.71	2,871.39	0.32	8,975.889	
200.00	200.00	214.00	214.00	0.49	0.54	83.37	331.41	2,852.52	2,871.71	2,870.68	1.04	2,769.572	
300.00	300.00	314.00	314.00	0.85	0.90	83.37	331.41	2,852.52	2,871.71	2,869.96	1.75	1,637.402	
400.00	400.00	414.00	414.00	1.21	1.26	83.37	331.41	2,852.52	2,871.71	2,869.24	2.47	1,162.276	
500.00	500.00	514.00	514.00	1.57	1.62	83.37	331.41	2,852.52	2,871.71	2,868.52	3.19	900.870	
600.00	600.00	614.00	614.00	1.93	1.98	83.37	331.41	2,852.52	2,871.71	2,867.81	3.90	735.459	
700.00	700.00	714.00	714.00	2.29	2.34	83.37	331.41	2,852.52	2,871.71	2,867.09	4.62	621.368	
800.00	800.00	814.00	814.00	2.64	2.69	83.37	331.41	2,852.52	2,871.71	2,866.37	5.34	537.921	
900.00	900.00	914.00	914.00	3.00	3.05	83.37	331.41	2,852.52	2,871.71	2,865.66	6.06	474.234	
1,000.00	1,000.00	1,014.00	1,014.00	3.36	3.41	83.37	331.41	2,852.52	2,871.71	2,864.94	6.77	424.030	
1,100.00	1,100.00	1,114.00	1,114.00	3.72	3.77	83.37	331.41	2,852.52	2,871.71	2,864.22	7.49	383.439	
1,200.00	1,200.00	1,214.00	1,214.00	4.08	4.13	83.37	331.41	2,852.52	2,871.71	2,863.51	8.21	349.940	
1,300.00	1,300.00	1,314.00	1,314.00	4.44	4.49	83.37	331.41	2,852.52	2,871.71	2,862.79	8.92	321.823	
1,400.00	1,400.00	1,414.00	1,414.00	4.80	4.84	83.37	331.41	2,852.52	2,871.71	2,862.07	9.64	297.889	
1,500.00	1,500.00	1,514.00	1,514.00	5.15	5.20	83.37	331.41	2,852.52	2,871.71	2,861.36	10.36	277.269	
1,600.00	1,600.00	1,614.00	1,614.00	5.51	5.56	83.37	331.41	2,852.52	2,871.71	2,860.64	11.07	259.318	
1,700.00	1,700.00	1,714.00	1,714.00	5.87	5.92	83.37	331.41	2,852.52	2,871.71	2,859.92	11.79	243.551	
1,800.00	1,800.00	1,814.00	1,814.00	6.23	6.28	83.37	331.41	2,852.52	2,871.71	2,859.20	12.51	229.591	
1,900.00	1,900.00	1,914.00	1,914.00	6.59	6.64	83.37	331.41	2,852.52	2,871.71	2,858.49	13.22	217.144	
2,000.00	2,000.00	2,014.00	2,014.00	6.95	7.00	83.37	331.41	2,852.52	2,871.71	2,857.77	13.94	205.978	
2,100.00	2,100.00	2,114.00	2,114.00	7.30	7.35	83.37	331.41	2,852.52	2,871.71	2,857.05	14.66	195.904	
2,200.00	2,200.00	2,214.00	2,214.00	7.66	7.71	83.37	331.41	2,852.52	2,871.71	2,856.34	15.38	186.769	CC, ES
2,300.00	2,299.98	2,313.98	2,313.98	8.01	8.07	-160.64	331.41	2,852.52	2,873.36	2,857.28	16.08	178.698	
2,400.00	2,399.84	2,413.84	2,413.84	8.34	8.43	-160.64	331.41	2,852.52	2,878.30	2,861.53	16.77	171.620	
2,500.00	2,499.45	2,513.45	2,513.45	8.68	8.79	-160.64	331.41	2,852.52	2,886.52	2,869.06	17.46	165.284	
2,600.00	2,598.70	2,612.70	2,612.70	9.03	9.14	-160.64	331.41	2,852.52	2,898.03	2,879.87	18.16	159.611	
2,700.00	2,697.47	2,711.47	2,711.47	9.38	9.50	-160.65	331.41	2,852.52	2,912.81	2,893.96	18.85	154.533	
2,800.00	2,795.62	2,813.76	2,813.76	9.75	9.86	-160.65	331.38	2,852.52	2,930.84	2,911.29	19.55	149.891	
2,900.00	2,893.44	2,954.41	2,954.34	10.13	10.33	-160.77	327.32	2,851.80	2,949.66	2,929.30	20.36	144.856	
3,000.00	2,991.25	3,096.05	3,095.52	10.51	10.79	-160.75	316.37	2,849.86	2,967.06	2,945.89	21.16	140.196	
3,100.00	3,089.07	3,237.98	3,236.28	10.91	11.26	-160.60	298.51	2,846.69	2,983.02	2,961.04	21.98	135.740	
3,200.00	3,186.88	3,379.51	3,375.57	11.31	11.74	-160.33	273.90	2,842.33	2,997.57	2,974.77	22.80	131.461	
3,300.00	3,284.70	3,483.95	3,477.74	11.72	12.11	-160.07	252.59	2,838.55	3,011.27	2,987.74	23.53	127.999	
3,400.00	3,382.51	3,582.17	3,573.82	12.14	12.47	-159.82	232.48	2,834.98	3,025.01	3,000.77	24.24	124.787	
3,500.00	3,480.33	3,680.39	3,669.89	12.56	12.83	-159.58	212.37	2,831.42	3,038.81	3,013.84	24.97	121.708	
3,600.00	3,578.14	3,778.62	3,765.96	12.99	13.20	-159.34	192.26	2,827.85	3,052.66	3,026.95	25.70	118.759	
3,700.00	3,675.96	3,876.84	3,862.04	13.42	13.58	-159.11	172.16	2,824.28	3,066.56	3,040.11	26.45	115.935	
3,800.00	3,773.77	3,975.06	3,958.11	13.86	13.97	-158.87	152.05	2,820.72	3,080.51	3,053.31	27.21	113.232	
3,900.00	3,871.59	4,073.28	4,054.19	14.30	14.36	-158.64	131.94	2,817.15	3,094.52	3,066.55	27.97	110.645	
4,000.00	3,969.40	4,171.50	4,150.26	14.75	14.76	-158.41	111.83	2,813.59	3,108.57	3,079.83	28.74	108.168	
4,100.00	4,067.22	4,269.72	4,246.34	15.19	15.16	-158.18	91.73	2,810.02	3,122.67	3,093.16	29.52	105.798	
4,200.00	4,165.03	4,367.94	4,342.41	15.64	15.57	-157.95	71.62	2,806.46	3,136.83	3,106.53	30.30	103.528	
4,300.00	4,262.84	4,466.16	4,438.49	16.10	15.98	-157.73	51.51	2,802.89	3,151.03	3,119.94	31.09	101.355	
4,400.00	4,360.66	4,564.38	4,534.56	16.55	16.39	-157.51	31.40	2,799.32	3,165.28	3,133.39	31.88	99.273	
4,500.00	4,458.47	4,662.60	4,630.64	17.01	16.81	-157.29	11.30	2,795.76	3,179.58	3,146.89	32.69	97.277	
4,529.32	4,487.15	4,691.40	4,658.80	17.14	16.94	-157.22	5.40	2,794.71	3,183.78	3,150.85	32.92	96.709	
4,600.00	4,556.46	4,760.89	4,726.78	17.46	17.23	-157.13	-8.83	2,792.19	3,193.12	3,159.63	33.49	95.345	
4,700.00	4,655.06	4,859.37	4,823.10	17.90	17.66	-156.97	-28.99	2,788.62	3,203.67	3,169.37	34.30	93.415	
4,800.00	4,754.18	4,957.94	4,919.52	18.31	18.09	-156.76	-49.16	2,785.04	3,211.08	3,175.98	35.10	91.487	
4,900.00	4,853.70	5,056.48	5,015.90	18.69	18.52	-156.51	-69.34	2,781.46	3,215.37	3,179.47	35.90	89.567	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 301H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	5,147.40	5,104.87	19.05	18.92	-156.23	-87.79	2,778.19	3,216.59	3,179.93	36.66	87.745	
5,100.00	5,053.46	5,226.89	5,183.00	19.39	19.26	-155.98	-102.18	2,775.64	3,215.19	3,177.84	37.35	86.083	
5,129.32	5,082.78	5,250.28	5,206.07	19.49	19.36	88.10	-106.00	2,774.96	3,214.30	3,176.75	37.55	85.605	
5,200.00	5,153.46	5,300.00	5,255.20	19.71	19.57	88.23	-113.52	2,773.63	3,212.07	3,174.08	37.99	84.545	
5,300.00	5,253.46	5,387.59	5,342.04	20.04	19.92	88.43	-124.71	2,771.64	3,209.43	3,170.75	38.68	82.971	
5,400.00	5,353.46	5,468.78	5,422.83	20.36	20.23	88.58	-132.75	2,770.22	3,207.41	3,168.08	39.33	81.555	
5,500.00	5,453.46	5,550.38	5,504.21	20.68	20.53	88.68	-138.55	2,769.19	3,205.97	3,166.01	39.96	80.223	
5,600.00	5,553.46	5,632.25	5,586.00	21.00	20.82	88.74	-142.08	2,768.56	3,205.11	3,164.52	40.59	78.972	
5,700.00	5,653.46	5,714.26	5,667.99	21.33	21.10	88.76	-143.30	2,768.34	3,204.81	3,163.62	41.19	77.797	
5,734.35	5,687.81	5,748.08	5,701.81	21.44	21.21	88.76	-143.31	2,768.34	3,204.81	3,163.39	41.42	77.373	
5,800.00	5,753.46	5,813.72	5,767.46	21.65	21.42	88.76	-143.31	2,768.34	3,204.81	3,162.96	41.86	76.568	
5,900.00	5,853.46	5,913.72	5,867.46	21.98	21.74	88.76	-143.31	2,768.34	3,204.81	3,162.29	42.52	75.371	
6,000.00	5,953.46	6,013.72	5,967.46	22.31	22.07	88.76	-143.31	2,768.34	3,204.81	3,161.62	43.19	74.208	
6,100.00	6,053.46	6,113.72	6,067.46	22.64	22.39	88.76	-143.31	2,768.34	3,204.81	3,160.96	43.85	73.078	
6,200.00	6,153.46	6,213.72	6,167.46	22.97	22.72	88.76	-143.31	2,768.34	3,204.81	3,160.29	44.52	71.979	
6,300.00	6,253.46	6,313.72	6,267.46	23.30	23.04	88.76	-143.31	2,768.34	3,204.81	3,159.62	45.20	70.910	
6,400.00	6,353.46	6,413.72	6,367.46	23.63	23.37	88.76	-143.31	2,768.34	3,204.81	3,158.94	45.87	69.871	
6,500.00	6,453.46	6,513.72	6,467.46	23.96	23.70	88.76	-143.31	2,768.34	3,204.81	3,158.27	46.54	68.859	
6,600.00	6,553.46	6,613.72	6,567.46	24.30	24.03	88.76	-143.31	2,768.34	3,204.81	3,157.60	47.22	67.875	
6,700.00	6,653.46	6,713.72	6,667.46	24.63	24.36	88.76	-143.31	2,768.34	3,204.81	3,156.92	47.89	66.917	
6,800.00	6,753.46	6,813.72	6,767.46	24.96	24.69	88.76	-143.31	2,768.34	3,204.81	3,156.24	48.57	65.984	
6,900.00	6,853.46	6,913.72	6,867.46	25.30	25.02	88.76	-143.31	2,768.34	3,204.81	3,155.56	49.25	65.075	
7,000.00	6,953.46	7,013.72	6,967.46	25.64	25.36	88.76	-143.31	2,768.34	3,204.81	3,154.88	49.93	64.189	
7,100.00	7,053.46	7,113.72	7,067.46	25.97	25.69	88.76	-143.31	2,768.34	3,204.81	3,154.20	50.61	63.326	
7,200.00	7,153.46	7,213.72	7,167.46	26.31	26.03	88.76	-143.31	2,768.34	3,204.81	3,153.52	51.29	62.485	
7,300.00	7,253.46	7,313.72	7,267.46	26.65	26.36	88.76	-143.31	2,768.34	3,204.81	3,152.84	51.97	61.664	
7,400.00	7,353.46	7,413.72	7,367.46	26.98	26.70	88.76	-143.31	2,768.34	3,204.81	3,152.16	52.66	60.864	
7,500.00	7,453.46	7,513.72	7,467.46	27.32	27.03	88.76	-143.31	2,768.34	3,204.81	3,151.47	53.34	60.083	
7,600.00	7,553.46	7,613.72	7,567.46	27.66	27.37	88.76	-143.31	2,768.34	3,204.81	3,150.79	54.02	59.321	
7,700.00	7,653.46	7,713.72	7,667.46	28.00	27.71	88.76	-143.31	2,768.34	3,204.81	3,150.10	54.71	58.578	
7,800.00	7,753.46	7,813.72	7,767.46	28.34	28.04	88.76	-143.31	2,768.34	3,204.81	3,149.41	55.40	57.851	
7,900.00	7,853.46	7,913.72	7,867.46	28.68	28.38	88.76	-143.31	2,768.34	3,204.81	3,148.73	56.08	57.142	
8,000.00	7,953.46	8,013.72	7,967.46	29.02	28.72	88.76	-143.31	2,768.34	3,204.81	3,148.04	56.77	56.450	
8,100.00	8,053.46	8,113.72	8,067.46	29.36	29.06	88.76	-143.31	2,768.34	3,204.81	3,147.35	57.46	55.773	
8,200.00	8,153.46	8,213.72	8,167.46	29.71	29.40	88.76	-143.31	2,768.34	3,204.81	3,146.66	58.15	55.112	
8,300.00	8,253.46	8,313.72	8,267.46	30.05	29.74	88.76	-143.31	2,768.34	3,204.81	3,145.97	58.84	54.465	
8,308.04	8,261.50	8,321.76	8,275.50	30.08	29.77	88.76	-143.31	2,768.34	3,204.81	3,145.91	58.90	54.414	
8,400.00	8,353.46	8,400.00	8,353.73	30.39	30.03	88.76	-143.21	2,768.36	3,204.86	3,145.38	59.48	53.883	
8,500.00	8,453.46	8,450.00	8,403.62	30.73	30.19	88.71	-140.12	2,768.75	3,205.92	3,145.96	59.96	53.472	
8,600.00	8,553.46	8,500.00	8,453.05	31.08	30.34	88.58	-132.73	2,769.68	3,208.43	3,148.03	60.41	53.115	
8,700.00	8,653.46	8,562.07	8,513.19	31.42	30.50	88.31	-117.66	2,771.58	3,212.41	3,151.54	60.87	52.777	
8,800.00	8,753.46	8,600.00	8,549.02	31.76	30.59	88.09	-105.30	2,773.15	3,218.08	3,156.86	61.22	52.565	
8,900.00	8,853.46	8,650.00	8,594.83	32.11	30.69	87.74	-85.47	2,775.65	3,225.42	3,163.84	61.58	52.374	
9,000.00	8,953.46	8,700.00	8,638.73	32.45	30.78	87.32	-61.76	2,778.65	3,234.64	3,172.72	61.92	52.239	
9,100.00	9,053.46	8,750.00	8,680.38	32.80	30.86	86.83	-34.34	2,782.11	3,245.92	3,183.69	62.22	52.165	
9,200.00	9,153.46	8,772.51	8,698.31	33.14	30.90	86.59	-20.84	2,783.82	3,259.18	3,196.77	62.41	52.222	
9,300.00	9,253.46	8,800.00	8,719.46	33.49	30.94	86.29	-3.42	2,786.02	3,274.69	3,212.11	62.58	52.326	
9,400.00	9,353.46	8,834.12	8,744.50	33.83	30.98	85.88	19.57	2,788.92	3,292.45	3,229.70	62.75	52.471	
9,500.00	9,453.46	8,850.00	8,755.67	34.18	31.01	85.69	30.76	2,790.33	3,312.58	3,249.76	62.82	52.729	
9,600.00	9,553.46	8,900.00	8,788.75	34.53	31.07	85.04	67.94	2,795.03	3,335.08	3,272.09	62.99	52.946	
9,700.00	9,653.46	8,900.00	8,788.75	34.87	31.07	85.04	67.94	2,795.03	3,359.84	3,296.88	62.95	53.370	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 301H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,753.46	8,927.15	8,805.30	35.22	31.10	84.67	89.28	2,797.73	3,387.03	3,324.04	62.99	53.772	
9,900.00	9,853.46	8,950.00	8,818.43	35.57	31.13	84.35	107.84	2,800.07	3,416.63	3,353.65	62.98	54.245	
9,955.59	9,909.05	8,950.00	8,818.43	35.76	31.13	84.35	107.84	2,800.07	3,434.11	3,371.19	62.92	54.575	
10,000.00	9,953.41	8,950.00	8,818.43	35.91	31.13	83.22	107.84	2,800.07	3,448.49	3,385.62	62.87	54.852	
10,050.00	10,003.03	8,971.92	8,830.32	36.08	31.16	81.23	126.11	2,802.38	3,464.58	3,401.70	62.88	55.095	
10,100.00	10,051.93	8,981.77	8,835.42	36.23	31.17	79.44	134.46	2,803.43	3,480.69	3,417.84	62.84	55.386	
10,150.00	10,099.75	9,000.00	8,844.50	36.38	31.20	77.60	150.15	2,805.42	3,496.60	3,433.77	62.83	55.652	
10,200.00	10,146.11	9,000.00	8,844.50	36.52	31.20	76.01	150.15	2,805.42	3,512.11	3,449.37	62.74	55.976	
10,250.00	10,190.67	9,000.00	8,844.50	36.64	31.20	74.47	150.15	2,805.42	3,527.25	3,464.60	62.65	56.298	
10,300.00	10,233.09	9,025.70	8,856.42	36.75	31.23	72.82	172.73	2,808.27	3,541.59	3,478.92	62.66	56.517	
10,350.00	10,273.04	9,050.00	8,866.74	36.85	31.26	71.31	194.56	2,811.03	3,555.37	3,492.70	62.67	56.731	
10,400.00	10,310.22	9,050.00	8,866.74	36.94	31.26	70.06	194.56	2,811.03	3,568.16	3,505.57	62.59	57.004	
10,450.00	10,344.35	9,050.00	8,866.74	37.01	31.26	68.90	194.56	2,811.03	3,580.16	3,517.63	62.53	57.256	
10,500.00	10,375.16	9,074.44	8,876.18	37.07	31.30	67.78	216.92	2,813.85	3,590.98	3,528.41	62.57	57.396	
10,550.00	10,402.43	9,100.00	8,885.01	37.11	31.33	66.81	240.72	2,816.86	3,600.85	3,538.23	62.62	57.506	
10,600.00	10,425.94	9,100.00	8,885.01	37.15	31.33	66.02	240.72	2,816.86	3,609.34	3,546.75	62.60	57.658	
10,650.00	10,445.52	9,100.00	8,885.01	37.19	31.33	65.33	240.72	2,816.86	3,616.77	3,554.17	62.60	57.773	
10,700.00	10,461.01	9,125.30	8,892.68	37.23	31.37	64.79	264.63	2,819.88	3,622.73	3,560.01	62.71	57.765	
10,750.00	10,472.31	9,150.00	8,899.15	37.30	31.41	64.41	288.28	2,822.87	3,627.50	3,564.66	62.84	57.722	
10,800.00	10,479.31	9,150.00	8,899.15	37.41	31.41	64.11	288.28	2,822.87	3,630.76	3,567.84	62.92	57.702	
10,850.00	10,481.98	9,150.00	8,899.15	37.55	31.41	63.93	288.28	2,822.87	3,632.80	3,569.78	63.03	57.639	
10,858.49	10,482.00	9,150.00	8,899.15	37.57	31.41	63.91	288.28	2,822.87	3,633.03	3,569.98	63.05	57.623	
10,900.00	10,481.79	9,176.05	8,904.84	37.70	31.45	64.01	313.50	2,826.05	3,633.92	3,570.69	63.23	57.468	
11,000.00	10,481.28	9,200.00	8,909.05	38.06	31.49	64.10	336.89	2,829.01	3,637.84	3,574.24	63.61	57.192	
11,100.00	10,480.78	9,227.53	8,912.67	38.49	31.54	64.18	363.96	2,832.43	3,643.81	3,579.77	64.05	56.894	
11,200.00	10,480.27	9,250.00	8,914.65	38.98	31.58	64.23	386.17	2,835.23	3,651.82	3,587.30	64.52	56.597	
11,300.00	10,479.77	9,289.31	8,916.00	39.53	31.65	64.28	425.13	2,840.16	3,661.86	3,596.77	65.09	56.261	
11,400.00	10,479.26	9,792.32	8,916.00	40.14	33.65	64.52	926.72	2,866.72	3,666.52	3,598.92	67.60	54.240	
11,500.00	10,478.76	9,892.31	8,916.00	40.81	34.27	64.53	1,026.72	2,866.06	3,666.30	3,597.52	68.78	53.303	
11,600.00	10,478.25	9,992.31	8,916.00	41.54	34.96	64.54	1,126.71	2,865.40	3,666.09	3,596.01	70.08	52.312	
11,700.00	10,477.75	10,092.31	8,916.00	42.31	35.71	64.54	1,226.71	2,864.74	3,665.88	3,594.39	71.49	51.280	
11,800.00	10,477.24	10,192.31	8,916.00	43.14	36.52	64.55	1,326.71	2,864.08	3,665.66	3,592.67	73.00	50.217	
11,900.00	10,476.74	10,292.31	8,916.00	44.01	37.39	64.56	1,426.70	2,863.42	3,665.45	3,590.85	74.60	49.134	
12,000.00	10,476.23	10,392.31	8,916.00	44.92	38.31	64.56	1,526.70	2,862.76	3,665.24	3,588.94	76.30	48.040	
12,100.00	10,475.73	10,492.31	8,916.00	45.88	39.28	64.57	1,626.69	2,862.10	3,665.03	3,586.95	78.07	46.943	
12,200.00	10,475.22	10,592.31	8,916.00	46.87	40.30	64.58	1,726.69	2,861.44	3,664.81	3,584.88	79.93	45.850	
12,300.00	10,474.72	10,692.30	8,916.00	47.90	41.35	64.59	1,826.69	2,860.78	3,664.60	3,582.74	81.86	44.766	
12,400.00	10,474.22	10,792.30	8,916.00	48.97	42.44	64.59	1,926.68	2,860.12	3,664.39	3,580.53	83.86	43.698	
12,500.00	10,473.71	10,892.30	8,916.00	50.06	43.57	64.60	2,026.68	2,859.46	3,664.18	3,578.26	85.92	42.647	
12,600.00	10,473.21	10,992.30	8,916.00	51.19	44.74	64.61	2,126.68	2,858.80	3,663.97	3,575.93	88.04	41.618	
12,700.00	10,472.70	11,092.30	8,916.00	52.34	45.93	64.61	2,226.67	2,858.14	3,663.76	3,573.54	90.21	40.613	
12,800.00	10,472.20	11,192.30	8,916.00	53.52	47.15	64.62	2,326.67	2,857.48	3,663.55	3,571.11	92.44	39.634	
12,900.00	10,471.70	11,292.30	8,916.00	54.73	48.40	64.63	2,426.67	2,856.82	3,663.33	3,568.63	94.70	38.682	
13,000.00	10,471.19	11,392.30	8,916.00	55.96	49.67	64.64	2,526.66	2,856.17	3,663.12	3,566.11	97.02	37.757	
13,100.00	10,470.69	11,492.29	8,916.00	57.21	50.96	64.64	2,626.66	2,855.51	3,662.91	3,563.54	99.37	36.861	
13,200.00	10,470.19	11,592.29	8,916.00	58.48	52.27	64.65	2,726.66	2,854.85	3,662.70	3,560.94	101.76	35.992	
13,300.00	10,469.68	11,692.29	8,916.00	59.77	53.61	64.66	2,826.65	2,854.19	3,662.49	3,558.30	104.19	35.152	
13,400.00	10,469.18	11,792.29	8,916.00	61.07	54.96	64.66	2,926.65	2,853.53	3,662.28	3,555.63	106.65	34.339	
13,500.00	10,468.68	11,892.29	8,916.00	62.40	56.32	64.67	3,026.65	2,852.87	3,662.08	3,552.93	109.14	33.553	
13,600.00	10,468.18	11,992.29	8,916.00	63.73	57.70	64.68	3,126.64	2,852.21	3,661.87	3,550.20	111.66	32.794	
13,700.00	10,467.67	12,092.29	8,916.00	65.09	59.10	64.69	3,226.64	2,851.55	3,661.66	3,547.45	114.21	32.061	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 301H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	10,467.17	12,192.28	8,916.00	66.46	60.51	64.69	3,326.64	2,850.89	3,661.45	3,544.67	116.78	31.354	
13,900.00	10,466.67	12,292.28	8,916.00	67.83	61.93	64.70	3,426.63	2,850.23	3,661.24	3,541.87	119.37	30.671	
14,000.00	10,466.17	12,392.28	8,916.00	69.23	63.36	64.71	3,526.63	2,849.57	3,661.03	3,539.05	121.98	30.012	
14,100.00	10,465.67	12,492.28	8,916.00	70.63	64.80	64.71	3,626.63	2,848.91	3,660.82	3,536.20	124.62	29.376	
14,200.00	10,465.17	12,592.28	8,916.00	72.04	66.26	64.72	3,726.62	2,848.25	3,660.61	3,533.34	127.27	28.762	
14,300.00	10,464.66	12,692.28	8,916.00	73.47	67.72	64.73	3,826.62	2,847.59	3,660.41	3,530.46	129.94	28.169	
14,400.00	10,464.16	12,792.28	8,916.00	74.90	69.19	64.74	3,926.62	2,846.93	3,660.20	3,527.57	132.63	27.596	
14,500.00	10,463.66	12,892.28	8,916.00	76.34	70.67	64.74	4,026.61	2,846.27	3,659.99	3,524.65	135.34	27.043	
14,600.00	10,463.16	12,992.27	8,916.00	77.80	72.16	64.75	4,126.61	2,845.62	3,659.78	3,521.73	138.06	26.509	
14,700.00	10,462.66	13,092.27	8,916.00	79.26	73.65	64.76	4,226.61	2,844.96	3,659.58	3,518.78	140.79	25.993	
14,800.00	10,462.16	13,192.27	8,916.00	80.72	75.15	64.76	4,326.60	2,844.30	3,659.37	3,515.83	143.54	25.493	
14,900.00	10,461.66	13,292.27	8,916.00	82.20	76.66	64.77	4,426.60	2,843.64	3,659.16	3,512.86	146.30	25.011	
15,000.00	10,461.16	13,392.27	8,916.00	83.68	78.18	64.78	4,526.60	2,842.98	3,658.96	3,509.88	149.08	24.544	
15,100.00	10,460.66	13,492.27	8,916.00	85.16	79.69	64.79	4,626.59	2,842.32	3,658.75	3,506.89	151.86	24.093	
15,200.00	10,460.16	13,592.27	8,916.00	86.66	81.22	64.79	4,726.59	2,841.66	3,658.54	3,503.89	154.65	23.656	
15,300.00	10,459.66	13,692.27	8,916.00	88.16	82.75	64.80	4,826.58	2,841.00	3,658.34	3,500.88	157.46	23.234	
15,400.00	10,459.16	13,792.26	8,916.00	89.66	84.28	64.81	4,926.58	2,840.34	3,658.13	3,497.87	160.27	22.825	
15,500.00	10,458.66	13,892.26	8,916.00	91.17	85.82	64.81	5,026.58	2,839.68	3,657.93	3,494.84	163.09	22.429	
15,600.00	10,458.16	13,992.26	8,916.00	92.69	87.37	64.82	5,126.57	2,839.02	3,657.72	3,491.80	165.92	22.045	
15,700.00	10,457.66	14,092.26	8,916.00	94.21	88.91	64.83	5,226.57	2,838.36	3,657.52	3,488.76	168.76	21.673	
15,800.00	10,457.16	14,192.26	8,916.00	95.73	90.46	64.84	5,326.57	2,837.70	3,657.31	3,485.71	171.60	21.313	
15,900.00	10,456.66	14,292.26	8,916.00	97.26	92.02	64.84	5,426.56	2,837.04	3,657.11	3,482.65	174.46	20.963	
16,000.00	10,456.16	14,392.26	8,916.00	98.79	93.58	64.85	5,526.56	2,836.38	3,656.90	3,479.59	177.32	20.624	
16,100.00	10,455.66	14,492.26	8,916.00	100.33	95.14	64.86	5,626.56	2,835.73	3,656.70	3,476.52	180.18	20.294	
16,200.00	10,455.16	14,592.25	8,916.00	101.87	96.70	64.86	5,726.55	2,835.07	3,656.49	3,473.44	183.06	19.975	
16,300.00	10,454.67	14,692.25	8,916.00	103.41	98.27	64.87	5,826.55	2,834.41	3,656.29	3,470.36	185.93	19.665	
16,400.00	10,454.17	14,792.25	8,916.00	104.96	99.84	64.88	5,926.55	2,833.75	3,656.09	3,467.27	188.82	19.363	
16,500.00	10,453.67	14,892.25	8,916.00	106.51	101.42	64.89	6,026.54	2,833.09	3,655.88	3,464.18	191.71	19.070	
16,600.00	10,453.17	14,992.25	8,916.00	108.07	102.99	64.89	6,126.54	2,832.43	3,655.68	3,461.08	194.60	18.785	
16,700.00	10,452.67	15,092.25	8,916.00	109.62	104.57	64.90	6,226.54	2,831.77	3,655.48	3,457.97	197.50	18.508	
16,800.00	10,452.17	15,192.25	8,916.00	111.18	106.15	64.91	6,326.53	2,831.11	3,655.27	3,454.87	200.41	18.239	
16,900.00	10,451.68	15,292.25	8,916.00	112.74	107.74	64.91	6,426.53	2,830.45	3,655.07	3,451.75	203.32	17.977	
17,000.00	10,451.18	15,392.25	8,916.00	114.31	109.32	64.92	6,526.53	2,829.79	3,654.87	3,448.64	206.23	17.722	
17,100.00	10,450.68	15,492.24	8,916.00	115.88	110.91	64.93	6,626.52	2,829.13	3,654.67	3,445.52	209.15	17.474	
17,200.00	10,450.18	15,592.24	8,916.00	117.45	112.50	64.94	6,726.52	2,828.47	3,654.46	3,442.40	212.07	17.233	
17,300.00	10,449.69	15,692.24	8,916.00	119.02	114.09	64.94	6,826.52	2,827.81	3,654.26	3,439.27	214.99	16.997	
17,400.00	10,449.19	15,792.24	8,916.00	120.60	115.68	64.95	6,926.51	2,827.15	3,654.06	3,436.14	217.92	16.768	
17,500.00	10,448.69	15,892.24	8,916.00	122.17	117.28	64.96	7,026.51	2,826.49	3,653.86	3,433.00	220.85	16.544	
17,600.00	10,448.20	15,992.24	8,916.00	123.75	118.87	64.96	7,126.51	2,825.83	3,653.66	3,429.87	223.79	16.326	
17,700.00	10,447.70	16,092.24	8,916.00	125.33	120.47	64.97	7,226.50	2,825.18	3,653.46	3,426.73	226.73	16.114	
17,800.00	10,447.20	16,192.24	8,916.00	126.91	122.07	64.98	7,326.50	2,824.52	3,653.26	3,423.58	229.67	15.906	
17,900.00	10,446.71	16,292.23	8,916.00	128.50	123.67	64.99	7,426.50	2,823.86	3,653.05	3,420.43	232.62	15.704	
18,000.00	10,446.21	16,392.23	8,916.00	130.09	125.28	64.99	7,526.49	2,823.20	3,652.85	3,417.28	235.57	15.506	
18,100.00	10,445.71	16,492.23	8,916.00	131.67	126.88	65.00	7,626.49	2,822.54	3,652.65	3,414.13	238.52	15.314	
18,200.00	10,445.22	16,592.23	8,916.00	133.26	128.48	65.01	7,726.49	2,821.88	3,652.45	3,410.98	241.48	15.125	
18,300.00	10,444.72	16,692.23	8,916.00	134.86	130.09	65.01	7,826.48	2,821.22	3,652.25	3,407.82	244.43	14.942	
18,400.00	10,444.23	16,792.23	8,916.00	136.45	131.70	65.02	7,926.48	2,820.56	3,652.05	3,404.66	247.39	14.762	
18,500.00	10,443.73	16,892.23	8,916.00	138.04	133.31	65.03	8,026.48	2,819.90	3,651.85	3,401.50	250.35	14.587	
18,600.00	10,443.24	16,992.23	8,916.00	139.64	134.92	65.04	8,126.47	2,819.24	3,651.65	3,398.34	253.32	14.415	
18,700.00	10,442.74	17,092.22	8,916.00	141.24	136.53	65.04	8,226.47	2,818.58	3,651.46	3,395.17	256.28	14.248	
18,800.00	10,442.25	17,192.22	8,916.00	142.84	138.14	65.05	8,326.47	2,817.92	3,651.26	3,392.01	259.25	14.084	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 301H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	10,441.75	17,292.22	8,916.00	144.44	139.76	65.06	8,426.46	2,817.26	3,651.06	3,388.84	262.22	13.924	
19,000.00	10,441.26	17,392.22	8,916.00	146.04	141.37	65.06	8,526.46	2,816.60	3,650.86	3,385.67	265.19	13.767	
19,100.00	10,440.76	17,492.22	8,916.00	147.64	142.99	65.07	8,626.46	2,815.94	3,650.66	3,382.49	268.17	13.613	
19,200.00	10,440.27	17,592.22	8,916.00	149.24	144.60	65.08	8,726.45	2,815.28	3,650.46	3,379.32	271.14	13.463	
19,300.00	10,439.77	17,692.22	8,916.00	150.85	146.22	65.09	8,826.45	2,814.63	3,650.26	3,376.15	274.12	13.316	
19,400.00	10,439.28	17,792.22	8,916.00	152.45	147.84	65.09	8,926.45	2,813.97	3,650.07	3,372.97	277.10	13.172	
19,500.00	10,438.78	17,892.21	8,916.00	154.06	149.46	65.10	9,026.44	2,813.31	3,649.87	3,369.79	280.08	13.032	
19,600.00	10,438.29	17,992.21	8,916.00	155.67	151.08	65.11	9,126.44	2,812.65	3,649.67	3,366.61	283.06	12.894	
19,700.00	10,437.80	18,092.21	8,916.00	157.28	152.70	65.11	9,226.43	2,811.99	3,649.47	3,363.43	286.05	12.758	
19,800.00	10,437.30	18,192.21	8,916.00	158.89	154.32	65.12	9,326.43	2,811.33	3,649.28	3,360.24	289.03	12.626	
19,900.00	10,436.81	18,292.21	8,916.00	160.50	155.94	65.13	9,426.43	2,810.67	3,649.08	3,357.06	292.02	12.496	
20,000.00	10,436.32	18,392.21	8,916.00	162.11	157.56	65.13	9,526.42	2,810.01	3,648.88	3,353.88	295.01	12.369	
20,100.00	10,435.82	18,492.21	8,916.00	163.72	159.19	65.14	9,626.42	2,809.35	3,648.69	3,350.69	298.00	12.244	
20,200.00	10,435.33	18,592.21	8,916.00	165.34	160.81	65.15	9,726.42	2,808.69	3,648.49	3,347.51	300.99	12.122	
20,300.00	10,434.84	18,692.20	8,916.00	166.95	162.43	65.16	9,826.41	2,808.03	3,648.30	3,344.32	303.98	12.002	
20,400.00	10,434.34	18,792.20	8,916.00	168.57	164.06	65.16	9,926.41	2,807.37	3,648.10	3,341.13	306.97	11.884	
20,500.00	10,433.85	18,892.20	8,916.00	170.18	165.69	65.17	10,026.41	2,806.71	3,647.90	3,337.94	309.97	11.769	
20,600.00	10,433.36	18,992.20	8,916.00	171.80	167.31	65.18	10,126.40	2,806.05	3,647.71	3,334.74	312.96	11.655	
20,700.00	10,432.86	19,092.20	8,916.00	173.42	168.94	65.18	10,226.40	2,805.39	3,647.51	3,331.55	315.96	11.544	
20,800.00	10,432.37	19,192.20	8,916.00	175.04	170.57	65.19	10,326.40	2,804.74	3,647.32	3,328.36	318.96	11.435	
20,875.64	10,432.00	19,261.87	8,916.00	176.26	171.70	65.20	10,396.07	2,804.28	3,647.18	3,326.04	321.14	11.357	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 302H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	14.00	14.00	0.00	0.02	83.26	331.22	2,802.69	2,822.19				
100.00	100.00	114.00	114.00	0.14	0.18	83.26	331.22	2,802.69	2,822.19	2,821.87	0.32	8,821.108	
200.00	200.00	214.00	214.00	0.49	0.54	83.26	331.22	2,802.69	2,822.19	2,821.16	1.04	2,721.814	
300.00	300.00	314.00	314.00	0.85	0.90	83.26	331.22	2,802.69	2,822.19	2,820.44	1.75	1,609.167	
400.00	400.00	414.00	414.00	1.21	1.26	83.26	331.22	2,802.69	2,822.19	2,819.72	2.47	1,142.234	
500.00	500.00	514.00	514.00	1.57	1.62	83.26	331.22	2,802.69	2,822.19	2,819.00	3.19	885.336	
600.00	600.00	614.00	614.00	1.93	1.98	83.26	331.22	2,802.69	2,822.19	2,818.29	3.90	722.777	
700.00	700.00	714.00	714.00	2.29	2.34	83.26	331.22	2,802.69	2,822.19	2,817.57	4.62	610.653	
800.00	800.00	814.00	814.00	2.64	2.69	83.26	331.22	2,802.69	2,822.19	2,816.85	5.34	528.645	
900.00	900.00	914.00	914.00	3.00	3.05	83.26	331.22	2,802.69	2,822.19	2,816.14	6.06	466.056	
1,000.00	1,000.00	1,014.00	1,014.00	3.36	3.41	83.26	331.22	2,802.69	2,822.19	2,815.42	6.77	416.718	
1,100.00	1,100.00	1,114.00	1,114.00	3.72	3.77	83.26	331.22	2,802.69	2,822.19	2,814.70	7.49	376.827	
1,200.00	1,200.00	1,214.00	1,214.00	4.08	4.13	83.26	331.22	2,802.69	2,822.19	2,813.99	8.21	343.905	
1,300.00	1,300.00	1,314.00	1,314.00	4.44	4.49	83.26	331.22	2,802.69	2,822.19	2,813.27	8.92	316.274	
1,400.00	1,400.00	1,414.00	1,414.00	4.80	4.84	83.26	331.22	2,802.69	2,822.19	2,812.55	9.64	292.753	
1,500.00	1,500.00	1,514.00	1,514.00	5.15	5.20	83.26	331.22	2,802.69	2,822.19	2,811.84	10.36	272.488	
1,600.00	1,600.00	1,614.00	1,614.00	5.51	5.56	83.26	331.22	2,802.69	2,822.19	2,811.12	11.07	254.847	
1,700.00	1,700.00	1,714.00	1,714.00	5.87	5.92	83.26	331.22	2,802.69	2,822.19	2,810.40	11.79	239.351	
1,800.00	1,800.00	1,814.00	1,814.00	6.23	6.28	83.26	331.22	2,802.69	2,822.19	2,809.68	12.51	225.632	
1,900.00	1,900.00	1,914.00	1,914.00	6.59	6.64	83.26	331.22	2,802.69	2,822.19	2,808.97	13.22	213.400	
2,000.00	2,000.00	2,014.00	2,014.00	6.95	7.00	83.26	331.22	2,802.69	2,822.19	2,808.25	13.94	202.426	
2,100.00	2,100.00	2,114.00	2,114.00	7.30	7.35	83.26	331.22	2,802.69	2,822.19	2,807.53	14.66	192.525	
2,200.00	2,200.00	2,214.00	2,214.00	7.66	7.71	83.26	331.22	2,802.69	2,822.19	2,806.82	15.38	183.548	
2,300.00	2,299.98	2,313.98	2,313.98	8.01	8.07	-160.75	331.22	2,802.69	2,823.84	2,807.76	16.08	175.618	
2,400.00	2,399.84	2,483.62	2,483.61	8.34	8.67	-160.77	330.45	2,801.74	2,828.61	2,811.61	17.00	166.346	
2,500.00	2,499.45	2,972.56	2,968.69	8.68	10.34	-160.45	295.04	2,758.17	2,825.58	2,806.79	18.79	150.412	
2,600.00	2,598.70	3,113.75	3,106.89	9.03	10.86	-160.29	276.82	2,735.75	2,819.54	2,799.97	19.57	144.049	
2,700.00	2,697.47	3,213.52	3,204.48	9.38	11.24	-160.18	263.74	2,719.65	2,816.71	2,796.44	20.27	138.990	
2,736.01	2,732.89	3,249.48	3,239.65	9.51	11.38	-160.15	259.03	2,713.85	2,816.50	2,795.98	20.52	137.273	
2,800.00	2,795.62	3,313.40	3,302.17	9.75	11.63	-160.08	250.65	2,703.53	2,817.17	2,796.20	20.97	134.366	
2,900.00	2,893.44	3,413.29	3,399.88	10.13	12.02	-160.00	237.55	2,687.41	2,819.28	2,797.60	21.68	130.065	
3,000.00	2,991.25	3,513.17	3,497.58	10.51	12.43	-159.91	224.46	2,671.30	2,821.39	2,799.00	22.39	125.991	
3,100.00	3,089.07	3,613.06	3,595.29	10.91	12.84	-159.82	211.36	2,655.18	2,823.51	2,800.40	23.12	122.131	
3,200.00	3,186.88	3,712.95	3,692.99	11.31	13.25	-159.74	198.26	2,639.06	2,825.64	2,801.79	23.85	118.470	
3,300.00	3,284.70	3,812.84	3,790.70	11.72	13.68	-159.65	185.17	2,622.94	2,827.78	2,803.19	24.59	114.998	
3,400.00	3,382.51	3,912.72	3,888.40	12.14	14.10	-159.57	172.07	2,606.82	2,829.92	2,804.58	25.33	111.703	
3,500.00	3,480.33	4,012.61	3,986.11	12.56	14.53	-159.48	158.98	2,590.71	2,832.06	2,805.98	26.08	108.574	
3,600.00	3,578.14	4,112.50	4,083.81	12.99	14.97	-159.40	145.88	2,574.59	2,834.22	2,807.38	26.84	105.599	
3,700.00	3,675.96	4,212.39	4,181.52	13.42	15.40	-159.31	132.78	2,558.47	2,836.38	2,808.78	27.60	102.771	
3,800.00	3,773.77	4,312.27	4,279.22	13.86	15.84	-159.23	119.69	2,542.35	2,838.54	2,810.18	28.36	100.078	
3,900.00	3,871.59	4,412.16	4,376.93	14.30	16.29	-159.14	106.59	2,526.23	2,840.71	2,811.58	29.13	97.514	
4,000.00	3,969.40	4,512.05	4,474.63	14.75	16.74	-159.06	93.50	2,510.11	2,842.89	2,812.99	29.90	95.070	
4,100.00	4,067.22	4,611.94	4,572.33	15.19	17.18	-158.97	80.40	2,494.00	2,845.08	2,814.40	30.68	92.738	
4,200.00	4,165.03	4,711.82	4,670.04	15.64	17.64	-158.89	67.30	2,477.88	2,847.27	2,815.81	31.46	90.511	
4,300.00	4,262.84	4,811.71	4,767.74	16.10	18.09	-158.80	54.21	2,461.76	2,849.46	2,817.22	32.24	88.384	
4,400.00	4,360.66	4,911.60	4,865.45	16.55	18.55	-158.72	41.11	2,445.64	2,851.67	2,818.64	33.02	86.350	
4,500.00	4,458.47	5,011.49	4,963.15	17.01	19.00	-158.63	28.02	2,429.52	2,853.87	2,820.06	33.81	84.404	
4,529.32	4,487.15	5,040.77	4,991.80	17.14	19.14	-158.61	24.18	2,424.80	2,854.52	2,820.48	34.04	83.849	
4,600.00	4,556.46	5,111.37	5,060.86	17.46	19.46	-158.55	14.92	2,413.41	2,855.28	2,820.68	34.60	82.520	
4,700.00	4,655.06	5,211.19	5,158.49	17.90	19.93	-158.42	1.83	2,397.30	2,853.58	2,818.20	35.39	80.639	
4,800.00	4,754.18	5,310.81	5,255.94	18.31	20.39	-158.24	-11.23	2,381.22	2,848.66	2,812.49	36.17	78.760	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 302H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	5,410.13	5,353.09	18.69	20.85	-158.02	-24.25	2,365.20	2,840.52	2,803.57	36.94	76.886	
5,000.00	4,953.50	5,509.02	5,449.81	19.05	21.31	-157.73	-37.22	2,349.24	2,829.19	2,791.47	37.71	75.019	
5,100.00	5,053.46	5,607.35	5,545.99	19.39	21.77	-157.40	-50.11	2,333.37	2,814.69	2,776.22	38.47	73.160	
5,129.32	5,082.78	5,636.06	5,574.08	19.49	21.90	86.72	-53.87	2,328.74	2,809.84	2,771.15	38.69	72.616	
5,200.00	5,153.46	5,705.19	5,641.70	19.71	22.23	86.89	-62.94	2,317.59	2,797.85	2,758.63	39.22	71.332	
5,300.00	5,253.46	5,803.01	5,737.38	20.04	22.69	87.14	-75.76	2,301.80	2,780.93	2,740.95	39.97	69.572	
5,400.00	5,353.46	5,900.82	5,833.06	20.36	23.15	87.39	-88.58	2,286.02	2,764.05	2,723.33	40.72	67.873	
5,500.00	5,453.46	5,998.64	5,928.73	20.68	23.61	87.65	-101.41	2,270.24	2,747.24	2,705.76	41.48	66.234	
5,600.00	5,553.46	6,075.67	6,004.11	21.00	23.97	87.85	-111.43	2,257.90	2,730.65	2,688.49	42.16	64.761	
5,700.00	5,653.46	6,131.34	6,058.77	21.33	24.22	87.99	-118.07	2,249.73	2,715.45	2,672.68	42.77	63.485	
5,800.00	5,753.46	6,200.00	6,126.46	21.65	24.53	88.14	-125.33	2,240.79	2,701.89	2,658.47	43.42	62.230	
5,900.00	5,853.46	6,243.83	6,169.80	21.98	24.71	88.22	-129.43	2,235.74	2,689.80	2,645.84	43.96	61.186	
6,000.00	5,953.46	6,300.00	6,225.49	22.31	24.95	88.32	-134.08	2,230.03	2,679.35	2,634.82	44.54	60.160	
6,100.00	6,053.46	6,357.59	6,282.72	22.64	25.17	88.40	-138.12	2,225.05	2,670.50	2,625.40	45.10	59.209	
6,200.00	6,153.46	6,400.00	6,324.94	22.97	25.34	88.45	-140.64	2,221.95	2,663.31	2,617.71	45.60	58.410	
6,300.00	6,253.46	6,472.28	6,397.02	23.30	25.60	88.52	-144.01	2,217.80	2,657.56	2,611.37	46.19	57.531	
6,400.00	6,353.46	6,529.86	6,454.52	23.63	25.81	88.56	-145.88	2,215.50	2,653.48	2,606.77	46.72	56.798	
6,500.00	6,453.46	6,600.00	6,524.63	23.96	26.04	88.59	-147.17	2,213.91	2,651.05	2,603.77	47.28	56.068	
6,600.00	6,553.46	6,648.59	6,573.21	24.30	26.20	88.59	-147.43	2,213.59	2,650.11	2,602.38	47.74	55.515	
6,635.37	6,588.83	6,678.20	6,602.83	24.41	26.29	88.59	-147.43	2,213.59	2,650.11	2,602.16	47.95	55.272	
6,700.00	6,653.46	6,742.83	6,667.46	24.63	26.48	88.59	-147.43	2,213.59	2,650.11	2,601.73	48.38	54.781	
6,800.00	6,753.46	6,842.83	6,767.46	24.96	26.79	88.59	-147.43	2,213.59	2,650.11	2,601.06	49.04	54.036	
6,900.00	6,853.46	6,942.83	6,867.46	25.30	27.09	88.59	-147.43	2,213.59	2,650.11	2,600.40	49.71	53.310	
7,000.00	6,953.46	7,042.83	6,967.46	25.64	27.40	88.59	-147.43	2,213.59	2,650.11	2,599.73	50.38	52.602	
7,100.00	7,053.46	7,142.83	7,067.46	25.97	27.71	88.59	-147.43	2,213.59	2,650.11	2,599.06	51.05	51.911	
7,200.00	7,153.46	7,242.83	7,167.46	26.31	28.02	88.59	-147.43	2,213.59	2,650.11	2,598.39	51.72	51.237	
7,300.00	7,253.46	7,342.83	7,267.46	26.65	28.33	88.59	-147.43	2,213.59	2,650.11	2,597.71	52.39	50.579	
7,400.00	7,353.46	7,442.83	7,367.46	26.98	28.64	88.59	-147.43	2,213.59	2,650.11	2,597.04	53.07	49.937	
7,500.00	7,453.46	7,542.83	7,467.46	27.32	28.95	88.59	-147.43	2,213.59	2,650.11	2,596.36	53.74	49.310	
7,600.00	7,553.46	7,642.83	7,567.46	27.66	29.27	88.59	-147.43	2,213.59	2,650.11	2,595.69	54.42	48.697	
7,700.00	7,653.46	7,742.83	7,667.46	28.00	29.58	88.59	-147.43	2,213.59	2,650.11	2,595.01	55.10	48.099	
7,800.00	7,753.46	7,842.83	7,767.46	28.34	29.90	88.59	-147.43	2,213.59	2,650.11	2,594.33	55.78	47.514	
7,900.00	7,853.46	7,942.83	7,867.46	28.68	30.22	88.59	-147.43	2,213.59	2,650.11	2,593.65	56.45	46.942	
8,000.00	7,953.46	8,042.83	7,967.46	29.02	30.53	88.59	-147.43	2,213.59	2,650.11	2,592.97	57.13	46.384	
8,100.00	8,053.46	8,142.83	8,067.46	29.36	30.85	88.59	-147.43	2,213.59	2,650.11	2,592.29	57.82	45.838	
8,200.00	8,153.46	8,242.83	8,167.46	29.71	31.17	88.59	-147.43	2,213.59	2,650.11	2,591.61	58.50	45.303	
8,300.00	8,253.46	8,342.83	8,267.46	30.05	31.49	88.59	-147.43	2,213.59	2,650.11	2,590.93	59.18	44.781	
8,305.96	8,259.42	8,348.79	8,273.42	30.07	31.51	88.59	-147.43	2,213.59	2,650.11	2,590.89	59.22	44.750	CC
8,400.00	8,353.46	8,440.95	8,365.57	30.39	31.81	88.58	-146.99	2,213.59	2,650.12	2,590.26	59.85	44.278	
8,500.00	8,453.46	8,531.81	8,455.70	30.73	32.06	88.35	-136.25	2,213.51	2,650.36	2,589.91	60.44	43.848	ES
8,600.00	8,553.46	8,617.28	8,537.94	31.08	32.26	87.86	-113.27	2,213.36	2,651.10	2,590.15	60.96	43.492	
8,700.00	8,653.46	8,694.47	8,608.54	31.42	32.40	87.19	-82.21	2,213.16	2,652.73	2,591.34	61.39	43.214	
8,800.00	8,753.46	8,762.18	8,666.55	31.76	32.49	86.43	-47.37	2,212.93	2,655.70	2,593.96	61.74	43.013	
8,900.00	8,853.46	8,820.49	8,712.92	32.11	32.55	85.67	-12.05	2,212.69	2,660.47	2,598.44	62.03	42.887	
9,000.00	8,953.46	8,870.27	8,749.49	32.45	32.58	84.95	21.69	2,212.47	2,667.44	2,605.17	62.27	42.838	
9,100.00	9,053.46	8,912.65	8,778.22	32.80	32.59	84.28	52.83	2,212.26	2,676.91	2,614.47	62.44	42.871	
9,200.00	9,153.46	8,950.00	8,801.58	33.14	32.60	83.66	81.97	2,212.07	2,689.11	2,626.56	62.56	42.987	
9,300.00	9,253.46	8,979.75	8,818.79	33.49	32.59	83.14	106.23	2,211.91	2,704.22	2,641.61	62.61	43.193	
9,400.00	9,353.46	9,000.00	8,829.78	33.83	32.59	82.77	123.24	2,211.79	2,722.34	2,659.75	62.59	43.497	
9,500.00	9,453.46	9,029.54	8,844.71	34.18	32.58	82.23	148.73	2,211.62	2,743.48	2,680.93	62.55	43.859	
9,600.00	9,553.46	9,050.00	8,854.27	34.53	32.57	81.85	166.81	2,211.50	2,767.72	2,705.27	62.45	44.320	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 302H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.00	9,653.46	9,067.42	8,861.89	34.87	32.56	81.51	182.47	2,211.40	2,795.02	2,732.72	62.30	44.867	
9,800.00	9,753.46	9,083.06	8,868.34	35.22	32.55	81.21	196.73	2,211.31	2,825.35	2,763.25	62.10	45.497	
9,900.00	9,853.46	9,100.00	8,874.87	35.57	32.55	80.88	212.35	2,211.20	2,858.65	2,796.78	61.87	46.200	
9,955.59	9,909.05	9,100.00	8,874.87	35.76	32.55	80.88	212.35	2,211.20	2,878.43	2,816.72	61.71	46.648	
10,000.00	9,953.41	9,100.00	8,874.87	35.91	32.55	79.55	212.35	2,211.20	2,894.63	2,833.07	61.56	47.019	
10,050.00	10,003.03	9,117.40	8,881.10	36.08	32.53	77.31	228.60	2,211.09	2,912.73	2,851.27	61.46	47.395	
10,100.00	10,051.93	9,125.73	8,883.90	36.23	32.53	75.30	236.44	2,211.04	2,930.66	2,869.35	61.31	47.801	
10,150.00	10,099.75	9,150.00	8,891.42	36.38	32.51	73.11	259.52	2,210.89	2,948.35	2,887.13	61.21	48.166	
10,200.00	10,146.11	9,150.00	8,891.42	36.52	32.51	71.40	259.52	2,210.89	2,965.27	2,904.24	61.03	48.586	
10,250.00	10,190.67	9,150.00	8,891.42	36.64	32.51	69.76	259.52	2,210.89	2,981.63	2,920.78	60.85	48.997	
10,300.00	10,233.09	9,150.00	8,891.42	36.75	32.51	68.22	259.52	2,210.89	2,997.32	2,936.64	60.68	49.396	
10,350.00	10,273.04	9,176.96	8,898.63	36.85	32.49	66.50	285.50	2,210.72	3,011.80	2,951.20	60.60	49.698	
10,400.00	10,310.22	9,200.00	8,903.81	36.94	32.47	64.98	307.94	2,210.57	3,025.44	2,964.92	60.52	49.994	
10,450.00	10,344.35	9,200.00	8,903.81	37.01	32.47	63.84	307.94	2,210.57	3,037.76	2,977.38	60.38	50.312	
10,500.00	10,375.16	9,200.00	8,903.81	37.07	32.47	62.81	307.94	2,210.57	3,048.98	2,988.72	60.26	50.596	
10,550.00	10,402.43	9,225.63	8,908.50	37.11	32.44	61.75	333.13	2,210.40	3,058.65	2,998.42	60.23	50.780	
10,600.00	10,425.94	9,250.00	8,911.92	37.15	32.42	60.88	357.26	2,210.24	3,067.07	3,006.85	60.22	50.931	
10,650.00	10,445.52	9,250.00	8,911.92	37.19	32.42	60.28	357.26	2,210.24	3,073.83	3,013.65	60.18	51.077	
10,700.00	10,461.01	9,250.00	8,911.92	37.23	32.42	59.81	357.26	2,210.24	3,079.24	3,019.07	60.17	51.174	
10,750.00	10,472.31	9,277.73	8,914.55	37.30	32.39	59.42	384.87	2,210.06	3,082.81	3,022.56	60.25	51.167	
10,800.00	10,479.31	9,300.00	8,915.70	37.41	32.37	59.22	407.10	2,209.91	3,084.93	3,024.59	60.34	51.122	
10,850.00	10,481.98	9,300.00	8,915.70	37.55	32.37	59.18	407.10	2,209.91	3,085.34	3,024.90	60.44	51.048	
10,858.49	10,482.00	9,300.00	8,915.70	37.57	32.37	59.19	407.10	2,209.91	3,085.26	3,024.80	60.46	51.030	
10,900.00	10,481.79	9,319.51	8,916.00	37.70	32.35	59.20	426.61	2,209.78	3,084.90	3,024.31	60.59	50.914	
11,000.00	10,481.28	9,412.35	8,915.82	38.06	32.27	59.20	519.44	2,209.17	3,084.73	3,023.69	61.04	50.539	
11,100.00	10,480.78	9,512.34	8,915.63	38.49	32.45	59.21	619.43	2,208.50	3,084.57	3,022.94	61.63	50.054	
11,200.00	10,480.27	9,612.33	8,915.43	38.98	32.88	59.21	719.42	2,207.84	3,084.41	3,022.06	62.35	49.470	
11,300.00	10,479.77	9,712.33	8,915.24	39.53	33.39	59.22	819.42	2,207.18	3,084.25	3,021.04	63.20	48.799	
11,400.00	10,479.26	9,812.32	8,915.05	40.14	33.97	59.22	919.41	2,206.51	3,084.09	3,019.90	64.18	48.051	
11,500.00	10,478.76	9,912.31	8,914.86	40.81	34.61	59.23	1,019.40	2,205.85	3,083.93	3,018.65	65.28	47.239	
11,600.00	10,478.25	10,012.31	8,914.66	41.54	35.31	59.23	1,119.39	2,205.19	3,083.77	3,017.27	66.50	46.374	
11,700.00	10,477.75	10,112.30	8,914.47	42.31	36.07	59.24	1,219.38	2,204.53	3,083.61	3,015.79	67.82	45.468	
11,800.00	10,477.24	10,212.30	8,914.28	43.14	36.88	59.24	1,319.37	2,203.86	3,083.45	3,014.21	69.24	44.532	
11,900.00	10,476.74	10,312.29	8,914.08	44.01	37.75	59.25	1,419.36	2,203.20	3,083.30	3,012.54	70.76	43.574	
12,000.00	10,476.23	10,412.28	8,913.89	44.92	38.67	59.25	1,519.36	2,202.54	3,083.14	3,010.77	72.37	42.604	
12,100.00	10,475.73	10,512.28	8,913.69	45.88	39.63	59.26	1,619.35	2,201.88	3,082.98	3,008.93	74.06	41.629	
12,200.00	10,475.22	10,612.27	8,913.50	46.87	40.63	59.26	1,719.34	2,201.22	3,082.83	3,007.00	75.83	40.656	
12,300.00	10,474.72	10,712.27	8,913.31	47.90	41.68	59.27	1,819.33	2,200.56	3,082.67	3,005.00	77.67	39.691	
12,400.00	10,474.22	10,812.26	8,913.11	48.97	42.76	59.27	1,919.32	2,199.89	3,082.52	3,002.94	79.58	38.737	
12,500.00	10,473.71	10,912.25	8,912.92	50.06	43.88	59.28	2,019.31	2,199.23	3,082.36	3,000.81	81.55	37.799	
12,600.00	10,473.21	11,012.25	8,912.72	51.19	45.03	59.28	2,119.30	2,198.57	3,082.21	2,998.63	83.57	36.880	
12,700.00	10,472.70	11,112.24	8,912.53	52.34	46.21	59.29	2,219.30	2,197.91	3,082.05	2,996.40	85.65	35.983	
12,800.00	10,472.20	11,212.23	8,912.33	53.52	47.42	59.29	2,319.29	2,197.25	3,081.90	2,994.11	87.78	35.108	
12,900.00	10,471.70	11,312.23	8,912.14	54.73	48.66	59.30	2,419.28	2,196.59	3,081.74	2,991.78	89.96	34.257	
13,000.00	10,471.19	11,412.22	8,911.94	55.96	49.92	59.30	2,519.27	2,195.93	3,081.59	2,989.41	92.18	33.431	
13,100.00	10,470.69	11,512.22	8,911.75	57.21	51.20	59.31	2,619.26	2,195.27	3,081.44	2,987.00	94.44	32.629	
13,200.00	10,470.19	11,612.21	8,911.55	58.48	52.50	59.31	2,719.25	2,194.61	3,081.28	2,984.55	96.73	31.853	
13,300.00	10,469.68	11,712.20	8,911.35	59.77	53.82	59.32	2,819.25	2,193.94	3,081.13	2,982.07	99.06	31.102	
13,400.00	10,469.18	11,812.20	8,911.16	61.07	55.16	59.32	2,919.24	2,193.28	3,080.98	2,979.55	101.43	30.377	
13,500.00	10,468.68	11,912.19	8,910.96	62.40	56.51	59.33	3,019.23	2,192.62	3,080.83	2,977.01	103.82	29.676	
13,600.00	10,468.18	12,012.19	8,910.76	63.73	57.89	59.33	3,119.22	2,191.96	3,080.68	2,974.44	106.24	28.999	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 302H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	10,467.67	12,112.18	8,910.57	65.09	59.27	59.34	3,219.21	2,191.30	3,080.52	2,971.84	108.68	28.345	
13,800.00	10,467.17	12,212.17	8,910.37	66.46	60.67	59.34	3,319.20	2,190.64	3,080.37	2,969.22	111.15	27.714	
13,900.00	10,466.67	12,312.17	8,910.17	67.83	62.08	59.35	3,419.19	2,189.98	3,080.22	2,966.58	113.64	27.104	
14,000.00	10,466.17	12,412.16	8,909.98	69.23	63.50	59.35	3,519.19	2,189.32	3,080.07	2,963.92	116.16	26.517	
14,100.00	10,465.67	12,512.16	8,909.78	70.63	64.94	59.36	3,619.18	2,188.66	3,079.92	2,961.24	118.69	25.950	
14,200.00	10,465.17	12,612.15	8,909.58	72.04	66.38	59.36	3,719.17	2,188.00	3,079.77	2,958.54	121.24	25.403	
14,300.00	10,464.66	12,712.14	8,909.38	73.47	67.84	59.36	3,819.16	2,187.34	3,079.63	2,955.82	123.81	24.875	
14,400.00	10,464.16	12,812.14	8,909.19	74.90	69.30	59.37	3,919.15	2,186.69	3,079.48	2,953.09	126.39	24.365	
14,500.00	10,463.66	12,912.13	8,908.99	76.34	70.77	59.37	4,019.14	2,186.03	3,079.33	2,950.34	128.99	23.873	
14,600.00	10,463.16	13,012.12	8,908.79	77.80	72.25	59.38	4,119.13	2,185.37	3,079.18	2,947.58	131.60	23.398	
14,700.00	10,462.66	13,112.12	8,908.59	79.26	73.74	59.38	4,219.13	2,184.71	3,079.03	2,944.81	134.23	22.939	
14,800.00	10,462.16	13,212.11	8,908.39	80.72	75.23	59.39	4,319.12	2,184.05	3,078.89	2,942.02	136.87	22.496	
14,900.00	10,461.66	13,312.11	8,908.19	82.20	76.73	59.39	4,419.11	2,183.39	3,078.74	2,939.22	139.52	22.067	
15,000.00	10,461.16	13,412.10	8,907.99	83.68	78.24	59.40	4,519.10	2,182.73	3,078.59	2,936.41	142.18	21.653	
15,100.00	10,460.66	13,512.09	8,907.79	85.16	79.75	59.40	4,619.09	2,182.07	3,078.45	2,933.59	144.86	21.252	
15,200.00	10,460.16	13,612.09	8,907.60	86.66	81.27	59.41	4,719.08	2,181.41	3,078.30	2,930.76	147.54	20.865	
15,300.00	10,459.66	13,712.08	8,907.40	88.16	82.79	59.41	4,819.08	2,180.76	3,078.16	2,927.93	150.23	20.490	
15,400.00	10,459.16	13,812.08	8,907.20	89.66	84.32	59.42	4,919.07	2,180.10	3,078.01	2,925.08	152.93	20.127	
15,500.00	10,458.66	13,912.07	8,907.00	91.17	85.85	59.42	5,019.06	2,179.44	3,077.87	2,922.23	155.64	19.776	
15,600.00	10,458.16	14,012.06	8,906.80	92.69	87.39	59.43	5,119.05	2,178.78	3,077.72	2,919.37	158.36	19.435	
15,700.00	10,457.66	14,112.06	8,906.60	94.21	88.93	59.43	5,219.04	2,178.12	3,077.58	2,916.50	161.08	19.106	
15,800.00	10,457.16	14,212.05	8,906.40	95.73	90.48	59.44	5,319.03	2,177.47	3,077.43	2,913.62	163.81	18.786	
15,900.00	10,456.66	14,312.05	8,906.20	97.26	92.03	59.44	5,419.02	2,176.81	3,077.29	2,910.74	166.55	18.477	
16,000.00	10,456.16	14,412.04	8,905.99	98.79	93.58	59.45	5,519.02	2,176.15	3,077.15	2,907.85	169.30	18.176	
16,100.00	10,455.66	14,512.03	8,905.79	100.33	95.14	59.45	5,619.01	2,175.49	3,077.01	2,904.96	172.05	17.885	
16,200.00	10,455.16	14,612.03	8,905.59	101.87	96.70	59.46	5,719.00	2,174.84	3,076.86	2,902.06	174.81	17.601	
16,300.00	10,454.67	14,712.02	8,905.39	103.41	98.26	59.46	5,818.99	2,174.18	3,076.72	2,899.15	177.57	17.327	
16,400.00	10,454.17	14,812.01	8,905.19	104.96	99.83	59.47	5,918.98	2,173.52	3,076.58	2,896.24	180.34	17.060	
16,500.00	10,453.67	14,912.01	8,904.99	106.51	101.39	59.47	6,018.97	2,172.86	3,076.44	2,893.33	183.11	16.801	
16,600.00	10,453.17	15,012.00	8,904.79	108.07	102.97	59.48	6,118.97	2,172.21	3,076.30	2,890.41	185.89	16.549	
16,700.00	10,452.67	15,112.00	8,904.58	109.62	104.54	59.48	6,218.96	2,171.55	3,076.16	2,887.49	188.67	16.305	
16,800.00	10,452.17	15,211.99	8,904.38	111.18	106.12	59.49	6,318.95	2,170.89	3,076.02	2,884.56	191.45	16.067	
16,900.00	10,451.68	15,311.98	8,904.18	112.74	107.70	59.49	6,418.94	2,170.24	3,075.88	2,881.63	194.24	15.835	
17,000.00	10,451.18	15,411.98	8,903.98	114.31	109.28	59.50	6,518.93	2,169.58	3,075.74	2,878.70	197.04	15.610	
17,100.00	10,450.68	15,511.97	8,903.77	115.88	110.86	59.50	6,618.92	2,168.92	3,075.60	2,875.76	199.84	15.391	
17,200.00	10,450.18	15,611.97	8,903.57	117.45	112.45	59.51	6,718.91	2,168.27	3,075.46	2,872.82	202.64	15.177	
17,300.00	10,449.69	15,711.96	8,903.37	119.02	114.04	59.51	6,818.91	2,167.61	3,075.32	2,869.88	205.45	14.969	
17,400.00	10,449.19	15,811.95	8,903.17	120.60	115.62	59.52	6,918.90	2,166.96	3,075.18	2,866.93	208.25	14.767	
17,500.00	10,448.69	15,911.95	8,902.96	122.17	117.22	59.52	7,018.89	2,166.30	3,075.05	2,863.98	211.06	14.569	
17,600.00	10,448.20	16,011.94	8,902.76	123.75	118.81	59.53	7,118.88	2,165.64	3,074.91	2,861.03	213.88	14.377	
17,700.00	10,447.70	16,111.94	8,902.56	125.33	120.40	59.53	7,218.87	2,164.99	3,074.77	2,858.08	216.69	14.189	
17,800.00	10,447.20	16,211.93	8,902.35	126.91	122.00	59.54	7,318.86	2,164.33	3,074.64	2,855.12	219.51	14.007	
17,900.00	10,446.71	16,311.92	8,902.15	128.50	123.60	59.54	7,418.86	2,163.68	3,074.50	2,852.17	222.33	13.828	
18,000.00	10,446.21	16,411.92	8,901.94	130.09	125.20	59.55	7,518.85	2,163.02	3,074.36	2,849.20	225.16	13.654	
18,100.00	10,445.71	16,511.91	8,901.74	131.67	126.80	59.55	7,618.84	2,162.37	3,074.23	2,846.24	227.99	13.484	
18,200.00	10,445.22	16,611.91	8,901.53	133.26	128.40	59.55	7,718.83	2,161.71	3,074.09	2,843.28	230.82	13.318	
18,300.00	10,444.72	16,711.90	8,901.33	134.86	130.01	59.56	7,818.82	2,161.06	3,073.96	2,840.31	233.65	13.156	
18,400.00	10,444.23	16,811.89	8,901.12	136.45	131.61	59.56	7,918.81	2,160.40	3,073.82	2,837.34	236.48	12.998	
18,500.00	10,443.73	16,911.89	8,900.92	138.04	133.22	59.57	8,018.81	2,159.75	3,073.69	2,834.37	239.32	12.843	
18,600.00	10,443.24	17,011.88	8,900.71	139.64	134.83	59.57	8,118.80	2,159.09	3,073.56	2,831.40	242.16	12.692	
18,700.00	10,442.74	17,111.88	8,900.51	141.24	136.43	59.58	8,218.79	2,158.44	3,073.42	2,828.43	245.00	12.545	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 302H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,800.00	10,442.25	17,211.87	8,900.30	142.84	138.04	59.58	8,318.78	2,157.78	3,073.29	2,825.45	247.84	12.401	
18,900.00	10,441.75	17,311.86	8,900.10	144.44	139.65	59.59	8,418.77	2,157.13	3,073.16	2,822.48	250.68	12.259	
19,000.00	10,441.26	17,411.86	8,899.89	146.04	141.27	59.59	8,518.76	2,156.47	3,073.03	2,819.50	253.52	12.121	
19,100.00	10,440.76	17,511.85	8,899.69	147.64	142.88	59.60	8,618.75	2,155.82	3,072.89	2,816.52	256.37	11.986	
19,200.00	10,440.27	17,611.84	8,899.48	149.24	144.49	59.60	8,718.75	2,155.17	3,072.76	2,813.54	259.22	11.854	
19,300.00	10,439.77	17,711.84	8,899.27	150.85	146.11	59.61	8,818.74	2,154.51	3,072.63	2,810.56	262.07	11.725	
19,400.00	10,439.28	17,811.83	8,899.07	152.45	147.72	59.61	8,918.73	2,153.86	3,072.50	2,807.58	264.92	11.598	
19,500.00	10,438.78	17,911.83	8,898.86	154.06	149.34	59.62	9,018.72	2,153.20	3,072.37	2,804.60	267.77	11.474	
19,600.00	10,438.29	18,011.82	8,898.65	155.67	150.96	59.62	9,118.71	2,152.55	3,072.24	2,801.62	270.62	11.353	
19,700.00	10,437.80	18,111.81	8,898.44	157.28	152.58	59.63	9,218.70	2,151.90	3,072.11	2,798.63	273.47	11.234	
19,800.00	10,437.30	18,211.81	8,898.24	158.89	154.20	59.63	9,318.70	2,151.24	3,071.98	2,795.65	276.33	11.117	
19,900.00	10,436.81	18,311.80	8,898.03	160.50	155.82	59.64	9,418.69	2,150.59	3,071.85	2,792.67	279.18	11.003	
20,000.00	10,436.32	18,411.80	8,897.82	162.11	157.44	59.64	9,518.68	2,149.94	3,071.72	2,789.68	282.04	10.891	
20,100.00	10,435.82	18,511.79	8,897.61	163.72	159.06	59.65	9,618.67	2,149.28	3,071.59	2,786.69	284.90	10.781	
20,200.00	10,435.33	18,611.78	8,897.41	165.34	160.68	59.65	9,718.66	2,148.63	3,071.46	2,783.70	287.76	10.674	
20,300.00	10,434.84	18,711.78	8,897.20	166.95	162.30	59.66	9,818.65	2,147.98	3,071.34	2,780.71	290.62	10.568	
20,400.00	10,434.34	18,811.77	8,896.99	168.57	163.93	59.66	9,918.65	2,147.33	3,071.21	2,777.73	293.48	10.465	
20,500.00	10,433.85	18,911.77	8,896.78	170.18	165.55	59.66	10,018.64	2,146.67	3,071.08	2,774.74	296.35	10.363	
20,600.00	10,433.36	19,011.76	8,896.57	171.80	167.18	59.67	10,118.63	2,146.02	3,070.96	2,771.75	299.21	10.264	
20,700.00	10,432.86	19,111.75	8,896.36	173.42	168.80	59.67	10,218.62	2,145.37	3,070.83	2,768.76	302.07	10.166	
20,800.00	10,432.37	19,211.75	8,896.15	175.04	170.43	59.68	10,318.61	2,144.72	3,070.70	2,765.77	304.93	10.070	
20,875.64	10,432.00	19,285.44	8,896.00	176.26	171.63	59.68	10,392.30	2,144.24	3,070.61	2,763.54	307.06	10.000 SF	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 303H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.23	-0.10	-24.90	24.90				
100.00	100.00	100.00	100.00	0.14	0.14	-90.23	-0.10	-24.90	24.90	24.63	0.27	92.007	
200.00	200.00	200.00	200.00	0.49	0.49	-90.23	-0.10	-24.90	24.90	23.91	0.99	25.214	
300.00	300.00	300.00	300.00	0.85	0.85	-90.23	-0.10	-24.90	24.90	23.20	1.70	14.609	
400.00	400.00	400.00	400.00	1.21	1.21	-90.23	-0.10	-24.90	24.90	22.48	2.42	10.284	
500.00	500.00	500.00	500.00	1.57	1.57	-90.23	-0.10	-24.90	24.90	21.76	3.14	7.934	
600.00	600.00	600.00	600.00	1.93	1.93	-90.23	-0.10	-24.90	24.90	21.05	3.86	6.459	
700.00	700.00	700.00	700.00	2.29	2.29	-90.23	-0.10	-24.90	24.90	20.33	4.57	5.446	
800.00	800.00	800.00	800.00	2.64	2.64	-90.23	-0.10	-24.90	24.90	19.61	5.29	4.708	
900.00	900.00	900.00	900.00	3.00	3.00	-90.23	-0.10	-24.90	24.90	18.90	6.01	4.146	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.23	-0.10	-24.90	24.90	18.18	6.72	3.704	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.23	-0.10	-24.90	24.90	17.46	7.44	3.347	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-90.23	-0.10	-24.90	24.90	16.74	8.16	3.053	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-90.23	-0.10	-24.90	24.90	16.03	8.87	2.806	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	-90.23	-0.10	-24.90	24.90	15.31	9.59	2.596	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-90.23	-0.10	-24.90	24.90	14.59	10.31	2.416	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-90.23	-0.10	-24.90	24.90	13.88	11.02	2.259	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-90.23	-0.10	-24.90	24.90	13.16	11.74	2.121	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-90.23	-0.10	-24.90	24.90	12.44	12.46	1.999	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-90.23	-0.10	-24.90	24.90	11.73	13.18	1.890	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-90.23	-0.10	-24.90	24.90	11.01	13.89	1.792	CC
2,100.00	2,100.00	2,099.16	2,099.14	7.30	7.29	-91.58	-0.73	-26.50	26.52	11.94	14.58	1.819	
2,200.00	2,200.00	2,198.08	2,197.92	7.66	7.62	-94.78	-2.61	-31.27	31.45	16.21	15.24	2.063	
2,300.00	2,299.98	2,296.68	2,296.15	8.01	7.96	18.41	-5.74	-39.18	38.13	22.27	15.86	2.404	
2,400.00	2,399.84	2,395.06	2,393.81	8.34	8.30	16.78	-10.09	-50.20	44.89	28.43	16.46	2.728	
2,500.00	2,499.45	2,493.21	2,490.77	8.68	8.65	15.88	-15.65	-64.29	51.68	34.65	17.03	3.034	
2,600.00	2,598.70	2,591.13	2,586.94	9.03	9.01	15.44	-22.42	-81.43	58.48	40.88	17.59	3.324	
2,700.00	2,697.47	2,690.80	2,684.44	9.38	9.39	15.58	-30.02	-100.69	63.88	45.61	18.27	3.496	
2,800.00	2,795.62	2,790.77	2,782.22	9.75	9.78	16.52	-37.66	-120.02	65.94	46.97	18.97	3.477	
2,900.00	2,893.44	2,890.75	2,880.02	10.13	10.18	17.87	-45.29	-139.36	66.36	46.69	19.67	3.373	
3,000.00	2,991.25	2,990.74	2,977.83	10.51	10.59	19.20	-52.93	-158.69	66.81	46.43	20.39	3.277	
3,100.00	3,089.07	3,090.73	3,075.63	10.91	11.01	20.51	-60.56	-178.03	67.30	46.19	21.11	3.188	
3,200.00	3,186.88	3,190.72	3,173.43	11.31	11.43	21.81	-68.20	-197.36	67.83	45.98	21.85	3.105	
3,300.00	3,284.70	3,290.70	3,271.23	11.72	11.86	23.08	-75.83	-216.70	68.39	45.80	22.59	3.027	
3,400.00	3,382.51	3,390.69	3,369.03	12.14	12.29	24.33	-83.46	-236.04	68.98	45.64	23.34	2.955	
3,500.00	3,480.33	3,490.68	3,466.84	12.56	12.73	25.56	-91.10	-255.37	69.60	45.50	24.10	2.888	
3,600.00	3,578.14	3,590.66	3,564.64	12.99	13.17	26.77	-98.73	-274.71	70.26	45.38	24.88	2.824	
3,700.00	3,675.96	3,690.65	3,662.44	13.42	13.61	27.95	-106.37	-294.04	70.94	45.29	25.66	2.765	
3,800.00	3,773.77	3,790.64	3,760.24	13.86	14.06	29.11	-114.00	-313.38	71.66	45.21	26.45	2.710	
3,900.00	3,871.59	3,890.62	3,858.04	14.30	14.51	30.25	-121.64	-332.71	72.41	45.16	27.25	2.658	
4,000.00	3,969.40	3,990.61	3,955.85	14.75	14.97	31.36	-129.27	-352.05	73.18	45.13	28.05	2.609	
4,100.00	4,067.22	4,090.60	4,053.65	15.19	15.43	32.46	-136.91	-371.39	73.98	45.11	28.87	2.563	
4,200.00	4,165.03	4,192.13	4,153.12	15.64	15.89	33.84	-144.37	-390.28	74.11	44.33	29.78	2.489	
4,300.00	4,262.84	4,294.26	4,253.82	16.10	16.33	36.65	-150.63	-406.14	71.42	40.67	30.75	2.323	
4,400.00	4,360.66	4,395.97	4,354.63	16.55	16.75	41.48	-155.55	-418.61	66.03	34.26	31.77	2.079	
4,500.00	4,458.47	4,497.00	4,455.18	17.01	17.14	49.45	-159.14	-427.70	58.61	25.71	32.90	1.782	
4,529.32	4,487.15	4,526.46	4,484.56	17.14	17.24	52.66	-159.94	-429.73	56.24	22.97	33.26	1.691	
4,600.00	4,556.46	4,597.25	4,555.24	17.46	17.50	61.69	-161.41	-433.45	51.07	16.87	34.20	1.493	Level 3
4,700.00	4,655.06	4,696.99	4,654.93	17.90	17.84	77.16	-162.39	-435.93	46.26	10.75	35.51	1.303	Level 3
4,777.19	4,731.53	4,773.58	4,731.53	18.21	18.08	90.00	-162.44	-436.05	45.09	8.80	36.29	1.242	Level 3
4,800.00	4,754.18	4,796.24	4,754.18	18.31	18.16	93.41	-162.44	-436.05	45.17	8.71	36.46	1.239	Level 3

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 303H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	4,895.76	4,853.70	18.69	18.48	105.38	-162.44	-436.05	46.77	9.80	36.97	1.265	Level 3
5,000.00	4,953.50	4,995.55	4,953.50	19.05	18.80	112.50	-162.44	-436.05	48.81	11.38	37.43	1.304	Level 3
5,100.00	5,053.46	5,095.51	5,053.46	19.39	19.12	115.46	-162.44	-436.05	49.94	11.96	37.98	1.315	Level 3
5,129.32	5,082.78	5,124.83	5,082.78	19.49	19.22	-0.38	-162.44	-436.05	50.00	11.84	38.16	1.310	Level 3
5,200.00	5,153.46	5,195.51	5,153.46	19.71	19.45	-0.38	-162.44	-436.05	50.00	11.38	38.62	1.295	Level 3
5,300.00	5,253.46	5,295.51	5,253.46	20.04	19.77	-0.38	-162.44	-436.05	50.00	10.72	39.28	1.273	Level 3
5,400.00	5,353.46	5,395.51	5,353.46	20.36	20.10	-0.38	-162.44	-436.05	50.00	10.06	39.94	1.252	Level 3
5,500.00	5,453.46	5,495.51	5,453.46	20.68	20.43	-0.38	-162.44	-436.05	50.00	9.41	40.60	1.232	Level 3
5,600.00	5,553.46	5,595.51	5,553.46	21.00	20.76	-0.38	-162.44	-436.05	50.00	8.74	41.26	1.212	Level 3
5,700.00	5,653.46	5,695.51	5,653.46	21.33	21.09	-0.38	-162.44	-436.05	50.00	8.08	41.92	1.193	Level 3
5,800.00	5,753.46	5,795.51	5,753.46	21.65	21.42	-0.38	-162.44	-436.05	50.00	7.42	42.58	1.174	Level 3
5,900.00	5,853.46	5,895.51	5,853.46	21.98	21.75	-0.38	-162.44	-436.05	50.00	6.75	43.25	1.156	Level 3
6,000.00	5,953.46	5,995.51	5,953.46	22.31	22.09	-0.38	-162.44	-436.05	50.00	6.08	43.92	1.139	Level 3
6,100.00	6,053.46	6,095.51	6,053.46	22.64	22.42	-0.38	-162.44	-436.05	50.00	5.42	44.59	1.121	Level 3
6,200.00	6,153.46	6,195.51	6,153.46	22.97	22.76	-0.38	-162.44	-436.05	50.00	4.74	45.26	1.105	Level 3
6,300.00	6,253.46	6,295.51	6,253.46	23.30	23.09	-0.38	-162.44	-436.05	50.00	4.07	45.93	1.089	Level 3
6,400.00	6,353.46	6,395.51	6,353.46	23.63	23.43	-0.38	-162.44	-436.05	50.00	3.40	46.60	1.073	Level 3
6,500.00	6,453.46	6,495.51	6,453.46	23.96	23.76	-0.38	-162.44	-436.05	50.00	2.73	47.27	1.058	Level 3
6,600.00	6,553.46	6,595.51	6,553.46	24.30	24.10	-0.38	-162.44	-436.05	50.00	2.05	47.95	1.043	Level 3
6,700.00	6,653.46	6,695.51	6,653.46	24.63	24.44	-0.38	-162.44	-436.05	50.00	1.38	48.63	1.028	Level 3
6,800.00	6,753.46	6,795.51	6,753.46	24.96	24.78	-0.38	-162.44	-436.05	50.00	0.70	49.30	1.014	Level 3
6,900.00	6,853.46	6,895.51	6,853.46	25.30	25.12	-0.38	-162.44	-436.05	50.00	0.02	49.98	1.000	Level 3
7,000.00	6,953.46	6,995.51	6,953.46	25.64	25.46	-0.38	-162.44	-436.05	50.00	-0.66	50.66	0.987	Level 3
7,100.00	7,053.46	7,095.51	7,053.46	25.97	25.80	-0.38	-162.44	-436.05	50.00	-1.34	51.34	0.974	Level 3
7,200.00	7,153.46	7,195.51	7,153.46	26.31	26.14	-0.38	-162.44	-436.05	50.00	-2.02	52.02	0.961	Level 3
7,300.00	7,253.46	7,295.51	7,253.46	26.65	26.48	-0.38	-162.44	-436.05	50.00	-2.70	52.71	0.949	Level 3
7,400.00	7,353.46	7,395.51	7,353.46	26.98	26.82	-0.38	-162.44	-436.05	50.00	-3.39	53.39	0.937	Level 3
7,500.00	7,453.46	7,495.51	7,453.46	27.32	27.16	-0.38	-162.44	-436.05	50.00	-4.07	54.08	0.925	Level 3
7,600.00	7,553.46	7,595.51	7,553.46	27.66	27.50	-0.38	-162.44	-436.05	50.00	-4.76	54.76	0.913	Level 3
7,700.00	7,653.46	7,695.51	7,653.46	28.00	27.85	-0.38	-162.44	-436.05	50.00	-5.45	55.45	0.902	Level 3
7,800.00	7,753.46	7,795.51	7,753.46	28.34	28.19	-0.38	-162.44	-436.05	50.00	-6.13	56.13	0.891	Level 3
7,900.00	7,853.46	7,895.51	7,853.46	28.68	28.53	-0.38	-162.44	-436.05	50.00	-6.82	56.82	0.880	Level 3
8,000.00	7,953.46	7,995.51	7,953.46	29.02	28.88	-0.38	-162.44	-436.05	50.00	-7.51	57.51	0.869	Level 3
8,100.00	8,053.46	8,095.51	8,053.46	29.36	29.22	-0.38	-162.44	-436.05	50.00	-8.20	58.20	0.859	Level 3
8,200.00	8,153.46	8,195.51	8,153.46	29.71	29.56	-0.38	-162.44	-436.05	50.00	-8.89	58.89	0.849	Level 3
8,300.00	8,253.46	8,295.51	8,253.46	30.05	29.91	-0.38	-162.44	-436.05	50.00	-9.58	59.59	0.839	Level 3
8,306.20	8,259.66	8,301.71	8,259.66	30.07	29.93	-0.38	-162.44	-436.05	50.00	-9.63	59.63	0.839	Level 3, ES, SF
8,400.00	8,353.46	8,390.13	8,347.97	30.39	30.23	-0.38	-159.40	-436.07	53.32	-5.17	58.49	0.912	Level 3
8,500.00	8,453.46	8,478.94	8,435.25	30.73	30.52	-0.38	-143.47	-436.18	71.33	14.78	56.55	1.261	Level 3
8,600.00	8,553.46	8,561.09	8,512.91	31.08	30.76	-0.38	-116.90	-436.35	103.79	48.90	54.89	1.891	
8,700.00	8,653.46	8,634.36	8,578.35	31.42	30.94	-0.38	-84.04	-436.57	148.76	95.78	52.97	2.808	
8,800.00	8,753.46	8,700.00	8,632.98	31.76	31.09	-0.38	-47.73	-436.81	204.07	152.84	51.23	3.983	
8,900.00	8,853.46	8,750.00	8,671.61	32.11	31.19	-0.38	-16.01	-437.02	267.68	219.04	48.64	5.503	
9,000.00	8,953.46	8,800.00	8,707.33	32.45	31.27	-0.38	18.95	-437.26	337.82	290.57	47.25	7.149	
9,100.00	9,053.46	8,839.32	8,733.20	32.80	31.33	-0.38	48.55	-437.45	413.14	367.50	45.65	9.051	
9,200.00	9,153.46	8,873.31	8,753.88	33.14	31.37	-0.38	75.52	-437.63	492.54	448.22	44.32	11.114	
9,300.00	9,253.46	8,900.00	8,768.97	33.49	31.41	-0.38	97.53	-437.78	575.16	532.10	43.06	13.357	
9,400.00	9,353.46	8,927.72	8,783.54	33.83	31.44	-0.38	121.10	-437.93	660.35	618.05	42.29	15.613	
9,500.00	9,453.46	8,950.00	8,794.42	34.18	31.47	-0.38	140.55	-438.06	747.62	706.06	41.56	17.988	
9,600.00	9,553.46	8,968.82	8,803.01	34.53	31.49	-0.38	157.29	-438.17	836.58	795.63	40.95	20.430	
9,700.00	9,653.46	9,000.00	8,816.03	34.87	31.53	-0.38	185.62	-438.36	927.23	886.27	40.95	22.641	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 303H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,753.46	9,000.00	8,816.03	35.22	31.53	-0.38	185.62	-438.36	1,018.45	978.34	40.10	25.396	
9,900.00	9,853.46	9,000.00	8,816.03	35.57	31.53	-0.38	185.62	-438.36	1,111.18	1,071.69	39.49	28.137	
9,955.59	9,909.05	9,020.77	8,823.83	35.76	31.56	-0.38	204.86	-438.49	1,162.69	1,122.96	39.73	29.262	
10,000.00	9,953.41	9,026.42	8,825.83	35.91	31.57	0.00	210.15	-438.52	1,203.57	1,163.93	39.63	30.367	
10,050.00	10,003.03	9,050.00	8,833.62	36.08	31.61	0.00	232.41	-438.67	1,248.42	1,208.58	39.85	31.329	
10,100.00	10,051.93	9,050.00	8,833.62	36.23	31.61	0.00	232.41	-438.67	1,290.89	1,251.41	39.48	32.696	
10,150.00	10,099.75	9,050.00	8,833.62	36.38	31.61	0.00	232.41	-438.67	1,331.53	1,292.43	39.10	34.054	
10,200.00	10,146.11	9,050.00	8,833.62	36.52	31.61	0.00	232.41	-438.67	1,370.21	1,331.50	38.71	35.397	
10,250.00	10,190.67	9,070.08	8,839.53	36.64	31.65	0.00	251.59	-438.80	1,406.32	1,367.65	38.66	36.374	
10,300.00	10,233.09	9,080.66	8,842.37	36.75	31.67	0.00	261.79	-438.87	1,440.08	1,401.65	38.43	37.475	
10,350.00	10,273.04	9,100.00	8,847.07	36.85	31.72	0.00	280.55	-438.99	1,471.33	1,433.01	38.32	38.398	
10,400.00	10,310.22	9,100.00	8,847.07	36.94	31.72	0.00	280.55	-438.99	1,499.70	1,461.79	37.91	39.557	
10,450.00	10,344.35	9,100.00	8,847.07	37.01	31.72	0.00	280.55	-438.99	1,525.59	1,488.05	37.54	40.636	
10,500.00	10,375.16	9,127.02	8,852.58	37.07	31.79	0.00	306.99	-439.17	1,548.05	1,510.53	37.52	41.258	
10,550.00	10,402.43	9,150.00	8,856.28	37.11	31.86	0.00	329.67	-439.32	1,567.94	1,530.49	37.45	41.873	
10,600.00	10,425.94	9,150.00	8,856.28	37.15	31.86	0.00	329.67	-439.32	1,584.50	1,547.35	37.15	42.651	
10,650.00	10,445.52	9,150.00	8,856.28	37.19	31.86	0.00	329.67	-439.32	1,598.35	1,561.43	36.92	43.294	
10,700.00	10,461.01	9,177.53	8,859.50	37.23	31.95	0.00	357.01	-439.50	1,608.53	1,571.60	36.94	43.549	
10,750.00	10,472.31	9,200.00	8,861.16	37.30	32.03	0.00	379.42	-439.65	1,615.90	1,578.96	36.93	43.750	
10,800.00	10,479.31	9,200.00	8,861.16	37.41	32.03	0.00	379.42	-439.65	1,619.86	1,583.01	36.85	43.962	
10,850.00	10,481.98	9,216.58	8,861.82	37.55	32.09	0.00	395.99	-439.76	1,620.68	1,583.78	36.90	43.926	
10,858.49	10,482.00	9,228.80	8,862.00	37.57	32.13	0.00	408.21	-439.84	1,620.62	1,583.68	36.94	43.876	
10,900.00	10,481.79	9,232.01	8,862.02	37.70	32.14	0.00	411.41	-439.86	1,619.79	1,582.81	36.98	43.800	
11,000.00	10,481.28	9,332.01	8,862.42	38.06	32.56	0.00	511.41	-440.52	1,618.88	1,581.49	37.39	43.294	
11,100.00	10,480.78	9,432.00	8,862.82	38.49	33.05	0.00	611.40	-441.18	1,617.97	1,580.11	37.86	42.735	
11,200.00	10,480.27	9,532.00	8,863.22	38.98	33.62	0.00	711.39	-441.85	1,617.07	1,578.68	38.39	42.125	
11,300.00	10,479.77	9,631.99	8,863.62	39.53	34.25	0.00	811.38	-442.51	1,616.16	1,577.19	38.97	41.470	
11,400.00	10,479.26	9,731.99	8,864.02	40.14	34.95	0.00	911.38	-443.18	1,615.25	1,575.64	39.61	40.780	
11,500.00	10,478.76	9,831.99	8,864.42	40.81	35.72	0.00	1,011.37	-443.84	1,614.35	1,574.05	40.30	40.060	
11,600.00	10,478.25	9,931.98	8,864.83	41.54	36.54	0.00	1,111.36	-444.50	1,613.44	1,572.40	41.04	39.317	
11,700.00	10,477.75	10,031.98	8,865.23	42.31	37.41	0.00	1,211.36	-445.17	1,612.53	1,570.71	41.82	38.559	
11,800.00	10,477.24	10,131.97	8,865.63	43.14	38.34	0.00	1,311.35	-445.83	1,611.63	1,568.98	42.65	37.789	
11,900.00	10,476.74	10,231.97	8,866.03	44.01	39.31	0.00	1,411.34	-446.49	1,610.72	1,567.20	43.52	37.014	
12,000.00	10,476.23	10,331.97	8,866.43	44.92	40.33	0.00	1,511.33	-447.16	1,609.81	1,565.39	44.42	36.238	
12,100.00	10,475.73	10,431.96	8,866.83	45.88	41.38	0.00	1,611.33	-447.82	1,608.91	1,563.54	45.37	35.465	
12,200.00	10,475.22	10,531.96	8,867.23	46.87	42.48	0.00	1,711.32	-448.49	1,608.00	1,561.66	46.34	34.698	
12,300.00	10,474.72	10,631.95	8,867.64	47.90	43.61	0.00	1,811.31	-449.15	1,607.10	1,559.75	47.35	33.940	
12,400.00	10,474.22	10,731.95	8,868.04	48.97	44.78	0.00	1,911.30	-449.82	1,606.19	1,557.80	48.39	33.193	
12,500.00	10,473.71	10,831.94	8,868.44	50.06	45.97	0.00	2,011.30	-450.48	1,605.29	1,555.83	49.46	32.459	
12,600.00	10,473.21	10,931.94	8,868.84	51.19	47.19	0.00	2,111.29	-451.15	1,604.38	1,553.83	50.55	31.740	
12,700.00	10,472.70	11,031.94	8,869.24	52.34	48.44	0.00	2,211.28	-451.81	1,603.48	1,551.81	51.66	31.036	
12,800.00	10,472.20	11,131.93	8,869.64	53.52	49.71	0.00	2,311.28	-452.48	1,602.57	1,549.77	52.80	30.349	
12,900.00	10,471.70	11,231.93	8,870.04	54.73	51.00	0.00	2,411.27	-453.14	1,601.67	1,547.70	53.97	29.680	
13,000.00	10,471.19	11,331.92	8,870.44	55.96	52.32	0.00	2,511.26	-453.81	1,600.76	1,545.62	55.15	29.027	
13,100.00	10,470.69	11,431.92	8,870.85	57.21	53.65	0.00	2,611.25	-454.47	1,599.86	1,543.51	56.35	28.393	
13,200.00	10,470.19	11,531.91	8,871.25	58.48	55.00	0.00	2,711.25	-455.14	1,598.95	1,541.39	57.56	27.777	
13,300.00	10,469.68	11,631.91	8,871.65	59.77	56.37	0.00	2,811.24	-455.80	1,598.05	1,539.25	58.80	27.179	
13,400.00	10,469.18	11,731.91	8,872.05	61.07	57.75	0.00	2,911.23	-456.47	1,597.15	1,537.10	60.05	26.598	
13,500.00	10,468.68	11,831.90	8,872.45	62.40	59.14	0.00	3,011.23	-457.13	1,596.24	1,534.93	61.31	26.035	
13,600.00	10,468.18	11,931.90	8,872.85	63.73	60.55	0.00	3,111.22	-457.80	1,595.34	1,532.75	62.59	25.489	
13,700.00	10,467.67	12,031.89	8,873.25	65.09	61.97	0.00	3,211.21	-458.46	1,594.43	1,530.55	63.88	24.960	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 303H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	10,467.17	12,131.89	8,873.65	66.46	63.40	0.00	3,311.20	-459.13	1,593.53	1,528.35	65.18	24.447	
13,900.00	10,466.67	12,231.89	8,874.06	67.83	64.85	0.00	3,411.20	-459.79	1,592.63	1,526.13	66.50	23.950	
14,000.00	10,466.17	12,331.88	8,874.46	69.23	66.30	0.00	3,511.19	-460.46	1,591.73	1,523.90	67.82	23.469	
14,100.00	10,465.67	12,431.88	8,874.86	70.63	67.76	0.00	3,611.18	-461.13	1,590.82	1,521.67	69.16	23.003	
14,200.00	10,465.17	12,531.87	8,875.26	72.04	69.23	0.00	3,711.18	-461.79	1,589.92	1,519.42	70.50	22.551	
14,300.00	10,464.66	12,631.87	8,875.66	73.47	70.71	0.00	3,811.17	-462.46	1,589.02	1,517.16	71.86	22.114	
14,400.00	10,464.16	12,731.86	8,876.06	74.90	72.20	0.00	3,911.16	-463.13	1,588.11	1,514.90	73.22	21.690	
14,500.00	10,463.66	12,831.86	8,876.46	76.34	73.69	0.00	4,011.15	-463.79	1,587.21	1,512.62	74.59	21.280	
14,600.00	10,463.16	12,931.86	8,876.86	77.80	75.19	0.00	4,111.15	-464.46	1,586.31	1,510.34	75.97	20.882	
14,700.00	10,462.66	13,031.85	8,877.26	79.26	76.70	0.00	4,211.14	-465.12	1,585.41	1,508.06	77.35	20.496	
14,800.00	10,462.16	13,131.85	8,877.67	80.72	78.21	0.00	4,311.13	-465.79	1,584.51	1,505.76	78.74	20.122	
14,900.00	10,461.66	13,231.84	8,878.07	82.20	79.73	0.00	4,411.12	-466.46	1,583.60	1,503.46	80.14	19.760	
15,000.00	10,461.16	13,331.84	8,878.47	83.68	81.26	0.00	4,511.12	-467.13	1,582.70	1,501.16	81.55	19.408	
15,100.00	10,460.66	13,431.84	8,878.87	85.16	82.79	0.00	4,611.11	-467.79	1,581.80	1,498.84	82.96	19.067	
15,200.00	10,460.16	13,531.83	8,879.27	86.66	84.32	0.00	4,711.10	-468.46	1,580.90	1,496.53	84.37	18.737	
15,300.00	10,459.66	13,631.83	8,879.67	88.16	85.86	0.00	4,811.10	-469.13	1,580.00	1,494.20	85.80	18.416	
15,400.00	10,459.16	13,731.82	8,880.07	89.66	87.40	0.00	4,911.09	-469.79	1,579.10	1,491.88	87.22	18.104	
15,500.00	10,458.66	13,831.82	8,880.47	91.17	88.95	0.00	5,011.08	-470.46	1,578.20	1,489.54	88.65	17.802	
15,600.00	10,458.16	13,931.81	8,880.87	92.69	90.50	0.00	5,111.07	-471.13	1,577.30	1,487.21	90.09	17.508	
15,700.00	10,457.66	14,031.81	8,881.28	94.21	92.05	0.00	5,211.07	-471.80	1,576.40	1,484.87	91.53	17.223	
15,800.00	10,457.16	14,131.81	8,881.68	95.73	93.61	0.00	5,311.06	-472.46	1,575.50	1,482.52	92.97	16.945	
15,900.00	10,456.66	14,231.80	8,882.08	97.26	95.17	0.00	5,411.05	-473.13	1,574.60	1,480.17	94.42	16.676	
16,000.00	10,456.16	14,331.80	8,882.48	98.79	96.74	0.00	5,511.05	-473.80	1,573.70	1,477.82	95.88	16.414	
16,100.00	10,455.66	14,431.79	8,882.88	100.33	98.30	0.00	5,611.04	-474.47	1,572.80	1,475.46	97.33	16.159	
16,200.00	10,455.16	14,531.79	8,883.28	101.87	99.87	0.00	5,711.03	-475.13	1,571.90	1,473.11	98.79	15.911	
16,300.00	10,454.67	14,631.79	8,883.68	103.41	101.45	0.00	5,811.02	-475.80	1,571.00	1,470.74	100.25	15.670	
16,400.00	10,454.17	14,731.78	8,884.08	104.96	103.02	0.00	5,911.02	-476.47	1,570.10	1,468.38	101.72	15.436	
16,500.00	10,453.67	14,831.78	8,884.48	106.51	104.60	0.00	6,011.01	-477.14	1,569.20	1,466.01	103.19	15.207	
16,600.00	10,453.17	14,931.77	8,884.89	108.07	106.18	0.00	6,111.00	-477.81	1,568.30	1,463.64	104.66	14.985	
16,700.00	10,452.67	15,031.77	8,885.29	109.62	107.76	0.00	6,211.00	-478.48	1,567.40	1,461.27	106.13	14.768	
16,800.00	10,452.17	15,131.76	8,885.69	111.18	109.35	0.00	6,310.99	-479.14	1,566.50	1,458.89	107.61	14.557	
16,900.00	10,451.68	15,231.76	8,886.09	112.74	110.94	0.00	6,410.98	-479.81	1,565.60	1,456.51	109.09	14.351	
17,000.00	10,451.18	15,331.76	8,886.49	114.31	112.52	0.00	6,510.97	-480.48	1,564.70	1,454.13	110.57	14.151	
17,100.00	10,450.68	15,431.75	8,886.89	115.88	114.12	0.00	6,610.97	-481.15	1,563.80	1,451.75	112.06	13.955	
17,200.00	10,450.18	15,531.75	8,887.29	117.45	115.71	0.00	6,710.96	-481.82	1,562.91	1,449.36	113.54	13.765	
17,300.00	10,449.69	15,631.74	8,887.69	119.02	117.30	0.00	6,810.95	-482.49	1,562.01	1,446.97	115.03	13.579	
17,400.00	10,449.19	15,731.74	8,888.09	120.60	118.90	0.00	6,910.94	-483.16	1,561.11	1,444.59	116.52	13.397	
17,500.00	10,448.69	15,831.74	8,888.49	122.17	120.50	0.00	7,010.94	-483.83	1,560.21	1,442.19	118.02	13.220	
17,600.00	10,448.20	15,931.73	8,888.90	123.75	122.10	0.00	7,110.93	-484.50	1,559.31	1,439.80	119.51	13.047	
17,700.00	10,447.70	16,031.73	8,889.30	125.33	123.70	0.00	7,210.92	-485.16	1,558.42	1,437.41	121.01	12.879	
17,800.00	10,447.20	16,131.72	8,889.70	126.91	125.30	0.00	7,310.92	-485.83	1,557.52	1,435.01	122.51	12.714	
17,900.00	10,446.71	16,231.72	8,890.10	128.50	126.90	0.00	7,410.91	-486.50	1,556.62	1,432.61	124.01	12.553	
18,000.00	10,446.21	16,331.72	8,890.50	130.09	128.51	0.00	7,510.90	-487.17	1,555.72	1,430.21	125.51	12.395	
18,100.00	10,445.71	16,431.71	8,890.90	131.67	130.11	0.00	7,610.89	-487.84	1,554.83	1,427.81	127.01	12.241	
18,200.00	10,445.22	16,531.71	8,891.30	133.26	131.72	0.00	7,710.89	-488.51	1,553.93	1,425.41	128.52	12.091	
18,300.00	10,444.72	16,631.70	8,891.70	134.86	133.33	0.00	7,810.88	-489.18	1,553.03	1,423.01	130.03	11.944	
18,400.00	10,444.23	16,731.70	8,892.10	136.45	134.94	0.00	7,910.87	-489.85	1,552.14	1,420.60	131.53	11.800	
18,500.00	10,443.73	16,831.69	8,892.50	138.04	136.55	0.00	8,010.87	-490.52	1,551.24	1,418.20	133.04	11.660	
18,600.00	10,443.24	16,931.69	8,892.90	139.64	138.16	0.00	8,110.86	-491.19	1,550.34	1,415.79	134.55	11.522	
18,700.00	10,442.74	17,031.69	8,893.30	141.24	139.78	0.00	8,210.85	-491.86	1,549.45	1,413.38	136.07	11.387	
18,800.00	10,442.25	17,131.68	8,893.71	142.84	141.39	0.00	8,310.84	-492.53	1,548.55	1,410.97	137.58	11.256	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 303H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	10,441.75	17,231.68	8,894.11	144.44	143.01	0.00	8,410.84	-493.20	1,547.66	1,408.56	139.10	11.127	
19,000.00	10,441.26	17,331.67	8,894.51	146.04	144.62	0.00	8,510.83	-493.87	1,546.76	1,406.15	140.61	11.000	
19,100.00	10,440.76	17,431.67	8,894.91	147.64	146.24	0.00	8,610.82	-494.54	1,545.87	1,403.74	142.13	10.877	
19,200.00	10,440.27	17,531.67	8,895.31	149.24	147.86	0.00	8,710.82	-495.21	1,544.97	1,401.32	143.65	10.755	
19,300.00	10,439.77	17,631.66	8,895.71	150.85	149.47	0.00	8,810.81	-495.89	1,544.07	1,398.91	145.17	10.637	
19,400.00	10,439.28	17,731.66	8,896.11	152.45	151.09	0.00	8,910.80	-496.56	1,543.18	1,396.49	146.69	10.520	
19,500.00	10,438.78	17,831.65	8,896.51	154.06	152.71	0.00	9,010.79	-497.23	1,542.28	1,394.08	148.21	10.406	
19,600.00	10,438.29	17,931.65	8,896.91	155.67	154.34	0.00	9,110.79	-497.90	1,541.39	1,391.66	149.73	10.294	
19,700.00	10,437.80	18,031.65	8,897.31	157.28	155.96	0.00	9,210.78	-498.57	1,540.49	1,389.24	151.25	10.185	
19,800.00	10,437.30	18,131.64	8,897.71	158.89	157.58	0.00	9,310.77	-499.24	1,539.60	1,386.82	152.78	10.077	
19,900.00	10,436.81	18,231.64	8,898.11	160.50	159.20	0.00	9,410.77	-499.91	1,538.71	1,384.40	154.30	9.972	
20,000.00	10,436.32	18,331.63	8,898.52	162.11	160.83	0.00	9,510.76	-500.58	1,537.81	1,381.98	155.83	9.869	
20,100.00	10,435.82	18,431.63	8,898.92	163.72	162.45	0.00	9,610.75	-501.25	1,536.92	1,379.56	157.36	9.767	
20,200.00	10,435.33	18,531.62	8,899.32	165.34	164.08	0.00	9,710.74	-501.93	1,536.02	1,377.14	158.88	9.668	
20,300.00	10,434.84	18,631.62	8,899.72	166.95	165.70	0.00	9,810.74	-502.60	1,535.13	1,374.72	160.41	9.570	
20,400.00	10,434.34	18,731.62	8,900.12	168.57	167.33	0.00	9,910.73	-503.27	1,534.24	1,372.29	161.94	9.474	
20,500.00	10,433.85	18,831.61	8,900.52	170.18	168.95	0.00	10,010.72	-503.94	1,533.34	1,369.87	163.47	9.380	
20,600.00	10,433.36	18,931.61	8,900.92	171.80	170.58	0.00	10,110.72	-504.61	1,532.45	1,367.45	165.00	9.287	
20,700.00	10,432.86	19,031.60	8,901.32	173.42	172.21	0.00	10,210.71	-505.29	1,531.56	1,365.02	166.54	9.197	
20,800.00	10,432.37	19,131.60	8,901.72	175.04	173.84	0.00	10,310.70	-505.96	1,530.66	1,362.60	168.07	9.107	
20,875.64	10,432.00	19,201.10	8,902.00	176.26	174.97	0.00	10,380.20	-506.42	1,530.00	1,360.79	169.21	9.042	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 304H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	11.01	250.41	48.70	255.10				
100.00	100.00	100.00	100.00	0.14	0.14	11.01	250.41	48.70	255.10	254.83	0.27	942.569	
200.00	200.00	200.00	200.00	0.49	0.49	11.01	250.41	48.70	255.10	254.12	0.99	258.309	
300.00	300.00	300.00	300.00	0.85	0.85	11.01	250.41	48.70	255.10	253.40	1.70	149.662	
400.00	400.00	400.00	400.00	1.21	1.21	11.01	250.41	48.70	255.10	252.68	2.42	105.350	
500.00	500.00	500.00	500.00	1.57	1.57	11.01	250.41	48.70	255.10	251.96	3.14	81.284	
600.00	600.00	600.00	600.00	1.93	1.93	11.01	250.41	48.70	255.10	251.25	3.86	66.168	
700.00	700.00	700.00	700.00	2.29	2.29	11.01	250.41	48.70	255.10	250.53	4.57	55.793	
800.00	800.00	800.00	800.00	2.64	2.64	11.01	250.41	48.70	255.10	249.81	5.29	48.230	
900.00	900.00	900.00	900.00	3.00	3.00	11.01	250.41	48.70	255.10	249.10	6.01	42.473	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	11.01	250.41	48.70	255.10	248.38	6.72	37.944	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	11.01	250.41	48.70	255.10	247.66	7.44	34.288	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	11.01	250.41	48.70	255.10	246.95	8.16	31.274	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	11.01	250.41	48.70	255.10	246.23	8.87	28.747	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	11.01	250.41	48.70	255.10	245.51	9.59	26.598	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	11.01	250.41	48.70	255.10	244.80	10.31	24.748	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	11.01	250.41	48.70	255.10	244.08	11.02	23.139	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	11.01	250.41	48.70	255.10	243.36	11.74	21.726	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	11.01	250.41	48.70	255.10	242.64	12.46	20.476	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	11.01	250.41	48.70	255.10	241.93	13.18	19.362	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	11.01	250.41	48.70	255.10	241.21	13.89	18.363	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	11.01	250.41	48.70	255.10	240.49	14.61	17.461	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	11.01	250.41	48.70	255.10	239.78	15.33	16.645	CC, ES
2,300.00	2,299.98	2,299.98	2,299.98	8.01	8.02	127.29	250.41	48.70	256.16	240.13	16.03	15.979	
2,400.00	2,399.84	2,399.84	2,399.84	8.34	8.38	128.16	250.41	48.70	259.36	242.64	16.72	15.508	
2,500.00	2,499.45	2,499.45	2,499.45	8.68	8.74	129.56	250.41	48.70	264.84	247.42	17.42	15.204	
2,600.00	2,598.70	2,598.70	2,598.70	9.03	9.09	131.40	250.41	48.70	272.79	254.67	18.12	15.056	
2,700.00	2,697.47	2,705.25	2,705.22	9.38	9.46	134.06	248.63	49.46	282.09	263.27	18.82	14.987	
2,800.00	2,795.62	2,811.03	2,810.84	9.75	9.80	137.54	243.27	51.76	291.86	272.36	19.50	14.966	
2,900.00	2,893.44	2,915.96	2,915.32	10.13	10.14	141.64	234.41	55.56	301.55	281.38	20.18	14.945	
3,000.00	2,991.25	3,020.12	3,018.61	10.51	10.49	145.98	222.15	60.82	310.37	289.52	20.86	14.882	
3,100.00	3,089.07	3,123.25	3,120.34	10.91	10.84	150.56	206.62	67.49	318.81	297.27	21.54	14.800	
3,200.00	3,186.88	3,223.76	3,218.86	11.31	11.20	155.29	188.34	75.33	327.44	305.20	22.24	14.724	
3,300.00	3,284.70	3,319.64	3,312.65	11.72	11.55	159.71	170.02	83.19	337.75	314.80	22.95	14.716	
3,400.00	3,382.51	3,415.53	3,406.44	12.14	11.90	163.86	151.70	91.05	350.07	326.40	23.67	14.792	
3,500.00	3,480.33	3,511.42	3,500.23	12.56	12.27	167.73	133.37	98.91	364.18	339.80	24.38	14.935	
3,600.00	3,578.14	3,607.30	3,594.03	12.99	12.64	171.31	115.05	106.76	379.90	354.79	25.11	15.131	
3,700.00	3,675.96	3,703.19	3,687.82	13.42	13.02	174.61	96.73	114.62	397.02	371.19	25.84	15.367	
3,800.00	3,773.77	3,799.08	3,781.61	13.86	13.40	177.64	78.41	122.48	415.39	388.81	26.57	15.633	
3,900.00	3,871.59	3,894.96	3,875.40	14.30	13.79	-179.58	60.09	130.34	434.83	407.51	27.31	15.921	
4,000.00	3,969.40	3,990.85	3,969.19	14.75	14.18	-177.04	41.77	138.20	455.21	427.15	28.06	16.223	
4,100.00	4,067.22	4,086.74	4,062.98	15.19	14.58	-174.70	23.45	146.06	476.41	447.59	28.81	16.535	
4,200.00	4,165.03	4,182.62	4,156.77	15.64	14.99	-172.57	5.12	153.92	498.32	468.75	29.57	16.851	
4,300.00	4,262.84	4,278.51	4,250.56	16.10	15.40	-170.61	-13.20	161.78	520.87	490.53	30.34	17.170	
4,400.00	4,360.66	4,374.40	4,344.36	16.55	15.81	-168.81	-31.52	169.64	543.95	512.85	31.11	17.487	
4,500.00	4,458.47	4,470.28	4,438.15	17.01	16.22	-167.15	-49.84	177.50	567.52	535.64	31.88	17.801	
4,529.32	4,487.15	4,498.39	4,465.64	17.14	16.34	-166.69	-55.21	179.80	574.52	542.41	32.11	17.892	
4,600.00	4,556.46	4,566.33	4,532.10	17.46	16.64	-165.68	-68.19	185.37	590.70	558.03	32.66	18.085	
4,700.00	4,655.06	4,662.94	4,626.60	17.90	17.06	-164.28	-86.65	193.29	611.12	577.67	33.45	18.272	
4,800.00	4,754.18	4,761.25	4,722.77	18.31	17.50	-162.86	-105.36	201.31	628.64	594.40	34.24	18.360	
4,900.00	4,853.70	4,865.20	4,824.97	18.69	17.94	-161.55	-122.79	208.79	642.64	607.58	35.06	18.328	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 304H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	4,970.66	4,929.29	19.05	18.38	-160.49	-136.99	214.88	652.66	616.78	35.88	18.192	
5,100.00	5,053.46	5,077.26	5,035.24	19.39	18.79	-159.64	-147.74	219.49	658.51	621.85	36.66	17.961	
5,129.32	5,082.78	5,108.67	5,066.54	19.49	18.91	84.58	-150.21	220.55	659.42	622.53	36.89	17.875	
5,200.00	5,153.46	5,184.62	5,142.31	19.71	19.19	85.00	-154.90	222.56	660.89	623.46	37.42	17.660	
5,300.00	5,253.46	5,292.42	5,250.03	20.04	19.56	85.32	-158.37	224.05	661.99	623.84	38.15	17.351	
5,400.00	5,353.46	5,395.84	5,353.46	20.36	19.90	85.35	-158.72	224.20	662.10	623.27	38.84	17.048	
5,500.00	5,453.46	5,495.84	5,453.46	20.68	20.23	85.35	-158.72	224.20	662.10	622.60	39.50	16.761	
5,600.00	5,553.46	5,595.84	5,553.46	21.00	20.55	85.35	-158.72	224.20	662.10	621.94	40.17	16.483	
5,700.00	5,653.46	5,695.84	5,653.46	21.33	20.88	85.35	-158.72	224.20	662.10	621.27	40.84	16.213	
5,800.00	5,753.46	5,795.84	5,753.46	21.65	21.20	85.35	-158.72	224.20	662.10	620.60	41.51	15.952	
5,900.00	5,853.46	5,895.84	5,853.46	21.98	21.53	85.35	-158.72	224.20	662.10	619.93	42.18	15.698	
6,000.00	5,953.46	5,995.84	5,953.46	22.31	21.86	85.35	-158.72	224.20	662.10	619.25	42.85	15.451	
6,100.00	6,053.46	6,095.84	6,053.46	22.64	22.19	85.35	-158.72	224.20	662.10	618.58	43.53	15.212	
6,200.00	6,153.46	6,195.84	6,153.46	22.97	22.52	85.35	-158.72	224.20	662.10	617.90	44.20	14.979	
6,300.00	6,253.46	6,295.84	6,253.46	23.30	22.85	85.35	-158.72	224.20	662.10	617.23	44.88	14.753	
6,400.00	6,353.46	6,395.84	6,353.46	23.63	23.19	85.35	-158.72	224.20	662.10	616.55	45.56	14.534	
6,500.00	6,453.46	6,495.84	6,453.46	23.96	23.52	85.35	-158.72	224.20	662.10	615.87	46.24	14.320	
6,600.00	6,553.46	6,595.84	6,553.46	24.30	23.85	85.35	-158.72	224.20	662.10	615.19	46.92	14.112	
6,700.00	6,653.46	6,695.84	6,653.46	24.63	24.19	85.35	-158.72	224.20	662.10	614.51	47.60	13.910	
6,800.00	6,753.46	6,795.84	6,753.46	24.96	24.52	85.35	-158.72	224.20	662.10	613.82	48.28	13.714	
6,900.00	6,853.46	6,895.84	6,853.46	25.30	24.86	85.35	-158.72	224.20	662.10	613.14	48.96	13.522	
7,000.00	6,953.46	6,995.84	6,953.46	25.64	25.20	85.35	-158.72	224.20	662.10	612.46	49.65	13.336	
7,100.00	7,053.46	7,095.84	7,053.46	25.97	25.53	85.35	-158.72	224.20	662.10	611.77	50.33	13.154	
7,200.00	7,153.46	7,195.84	7,153.46	26.31	25.87	85.35	-158.72	224.20	662.10	611.09	51.02	12.977	
7,300.00	7,253.46	7,295.84	7,253.46	26.65	26.21	85.35	-158.72	224.20	662.10	610.40	51.71	12.805	
7,400.00	7,353.46	7,395.84	7,353.46	26.98	26.55	85.35	-158.72	224.20	662.10	609.71	52.39	12.637	
7,500.00	7,453.46	7,495.84	7,453.46	27.32	26.89	85.35	-158.72	224.20	662.10	609.02	53.08	12.473	
7,600.00	7,553.46	7,595.84	7,553.46	27.66	27.23	85.35	-158.72	224.20	662.10	608.33	53.77	12.313	
7,700.00	7,653.46	7,695.84	7,653.46	28.00	27.57	85.35	-158.72	224.20	662.10	607.64	54.46	12.157	
7,800.00	7,753.46	7,795.84	7,753.46	28.34	27.91	85.35	-158.72	224.20	662.10	606.95	55.15	12.005	
7,900.00	7,853.46	7,895.84	7,853.46	28.68	28.25	85.35	-158.72	224.20	662.10	606.26	55.84	11.856	
8,000.00	7,953.46	7,995.84	7,953.46	29.02	28.59	85.35	-158.72	224.20	662.10	605.57	56.54	11.711	
8,100.00	8,053.46	8,095.84	8,053.46	29.36	28.93	85.35	-158.72	224.20	662.10	604.88	57.23	11.569	
8,200.00	8,153.46	8,195.84	8,153.46	29.71	29.28	85.35	-158.72	224.20	662.10	604.18	57.92	11.431	
8,300.00	8,253.46	8,295.84	8,253.46	30.05	29.62	85.35	-158.72	224.20	662.10	603.49	58.62	11.296	
8,300.70	8,254.16	8,296.54	8,254.16	30.05	29.62	85.35	-158.72	224.20	662.10	603.48	58.62	11.295	
8,400.00	8,353.46	8,392.25	8,349.83	30.39	29.94	85.22	-157.27	224.19	662.22	602.94	59.29	11.170	
8,500.00	8,453.46	8,482.08	8,438.56	30.73	30.21	84.07	-143.89	224.10	663.54	603.67	59.87	11.082	
8,600.00	8,553.46	8,565.86	8,518.50	31.08	30.43	81.94	-119.06	223.94	667.15	606.81	60.35	11.056	
8,700.00	8,653.46	8,641.05	8,586.49	31.42	30.59	79.24	-87.06	223.73	674.59	613.97	60.62	11.127	
8,800.00	8,753.46	8,706.75	8,642.02	31.76	30.71	76.32	-52.03	223.49	687.54	626.93	60.61	11.344	
8,900.00	8,853.46	8,763.23	8,686.30	32.11	30.81	73.48	-16.99	223.26	707.39	647.17	60.21	11.748	
9,000.00	8,953.46	8,811.43	8,721.19	32.45	30.88	70.86	16.23	223.04	734.98	675.57	59.42	12.370	
9,100.00	9,053.46	8,850.00	8,747.03	32.80	30.93	68.66	44.85	222.85	770.59	712.37	58.22	13.237	
9,200.00	9,153.46	8,887.54	8,770.28	33.14	30.98	66.46	74.32	222.66	813.95	757.10	56.85	14.317	
9,300.00	9,253.46	8,917.61	8,787.47	33.49	31.02	64.68	98.98	222.49	864.50	809.20	55.30	15.633	
9,400.00	9,353.46	8,950.00	8,804.52	33.83	31.06	62.75	126.52	222.31	921.53	867.69	53.85	17.114	
9,500.00	9,453.46	8,966.07	8,812.39	34.18	31.08	61.79	140.52	222.22	984.09	931.91	52.18	18.860	
9,600.00	9,553.46	9,000.00	8,827.71	34.53	31.13	59.77	170.80	222.02	1,051.76	1,000.74	51.01	20.617	
9,700.00	9,653.46	9,000.00	8,827.71	34.87	31.13	59.77	170.80	222.02	1,123.09	1,073.71	49.38	22.742	
9,800.00	9,753.46	9,018.35	8,835.24	35.22	31.15	58.69	187.53	221.90	1,198.15	1,149.87	48.28	24.817	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 304H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,853.46	9,031.96	8,840.48	35.57	31.17	57.90	200.09	221.82	1,276.19	1,228.93	47.26	27.002	
9,955.59	9,909.05	9,050.00	8,846.96	35.76	31.20	56.85	216.93	221.71	1,320.84	1,273.90	46.93	28.142	
10,000.00	9,953.41	9,050.00	8,846.96	35.91	31.20	52.44	216.93	221.71	1,356.23	1,309.77	46.46	29.192	
10,050.00	10,003.03	9,050.00	8,846.96	36.08	31.20	47.68	216.93	221.71	1,395.19	1,349.26	45.93	30.379	
10,100.00	10,051.93	9,050.00	8,846.96	36.23	31.20	43.55	216.93	221.71	1,433.00	1,387.59	45.41	31.560	
10,150.00	10,099.75	9,069.17	8,853.25	36.38	31.23	39.47	235.03	221.59	1,469.06	1,423.91	45.16	32.533	
10,200.00	10,146.11	9,078.77	8,856.18	36.52	31.24	36.30	244.18	221.53	1,503.53	1,458.75	44.78	33.577	
10,250.00	10,190.67	9,100.00	8,862.10	36.64	31.28	33.43	264.56	221.39	1,536.21	1,491.66	44.55	34.483	
10,300.00	10,233.09	9,100.00	8,862.10	36.75	31.28	31.39	264.56	221.39	1,566.55	1,522.47	44.07	35.544	
10,350.00	10,273.04	9,100.00	8,862.10	36.85	31.28	29.64	264.56	221.39	1,594.92	1,551.28	43.63	36.555	
10,400.00	10,310.22	9,122.40	8,867.53	36.94	31.32	27.92	286.29	221.25	1,620.65	1,577.20	43.45	37.302	
10,450.00	10,344.35	9,150.00	8,873.04	37.01	31.37	26.46	313.33	221.07	1,644.30	1,600.98	43.32	37.959	
10,500.00	10,375.16	9,150.00	8,873.04	37.07	31.37	25.48	313.33	221.07	1,664.82	1,621.86	42.96	38.755	
10,550.00	10,402.43	9,150.00	8,873.04	37.11	31.37	24.65	313.33	221.07	1,682.98	1,640.34	42.65	39.461	
10,600.00	10,425.94	9,171.68	8,876.46	37.15	31.41	23.88	334.74	220.93	1,698.22	1,655.67	42.55	39.916	
10,650.00	10,445.52	9,200.00	8,879.69	37.19	31.47	23.26	362.87	220.74	1,710.97	1,668.47	42.51	40.251	
10,700.00	10,461.01	9,200.00	8,879.69	37.23	31.47	22.89	362.87	220.74	1,720.33	1,677.99	42.34	40.631	
10,750.00	10,472.31	9,200.00	8,879.69	37.30	31.47	22.62	362.87	220.74	1,727.13	1,684.88	42.24	40.885	
10,800.00	10,479.31	9,223.77	8,881.33	37.41	31.52	22.45	386.58	220.58	1,730.74	1,688.44	42.30	40.915	
10,850.00	10,481.98	9,250.23	8,882.00	37.55	31.58	22.42	413.03	220.41	1,731.70	1,689.30	42.40	40.843	
10,858.49	10,482.00	9,250.23	8,882.00	37.57	31.58	22.43	413.03	220.41	1,731.48	1,689.07	42.41	40.830	
10,900.00	10,481.79	9,250.23	8,882.00	37.70	31.58	22.43	413.03	220.41	1,730.69	1,688.22	42.48	40.745	
11,000.00	10,481.28	9,349.84	8,882.21	38.06	31.87	22.44	512.63	219.75	1,730.03	1,687.13	42.91	40.320	
11,100.00	10,480.78	9,449.83	8,882.41	38.49	32.23	22.45	612.63	219.08	1,729.37	1,685.96	43.42	39.833	
11,200.00	10,480.27	9,549.83	8,882.62	38.98	32.68	22.45	712.62	218.42	1,728.71	1,684.71	44.00	39.289	
11,300.00	10,479.77	9,649.82	8,882.83	39.53	33.20	22.46	812.61	217.76	1,728.05	1,683.39	44.66	38.695	
11,400.00	10,479.26	9,749.82	8,883.04	40.14	33.80	22.47	912.61	217.09	1,727.39	1,682.00	45.39	38.057	
11,500.00	10,478.76	9,849.81	8,883.25	40.81	34.46	22.48	1,012.60	216.43	1,726.73	1,680.54	46.19	37.386	
11,600.00	10,478.25	9,949.81	8,883.46	41.54	35.19	22.49	1,112.59	215.77	1,726.07	1,679.02	47.05	36.687	
11,700.00	10,477.75	10,049.80	8,883.67	42.31	35.99	22.50	1,212.59	215.10	1,725.41	1,677.45	47.97	35.970	
11,800.00	10,477.24	10,149.80	8,883.87	43.14	36.84	22.51	1,312.58	214.44	1,724.75	1,675.81	48.95	35.238	
11,900.00	10,476.74	10,249.80	8,884.08	44.01	37.74	22.52	1,412.57	213.77	1,724.10	1,674.12	49.98	34.497	
12,000.00	10,476.23	10,349.79	8,884.29	44.92	38.69	22.53	1,512.56	213.11	1,723.44	1,672.38	51.06	33.753	
12,100.00	10,475.73	10,449.79	8,884.50	45.88	39.69	22.54	1,612.56	212.44	1,722.78	1,670.59	52.19	33.011	
12,200.00	10,475.22	10,549.78	8,884.70	46.87	40.73	22.54	1,712.55	211.78	1,722.12	1,668.76	53.36	32.273	
12,300.00	10,474.72	10,649.78	8,884.91	47.90	41.81	22.55	1,812.54	211.11	1,721.47	1,666.89	54.57	31.544	
12,400.00	10,474.22	10,749.77	8,885.12	48.97	42.93	22.56	1,912.54	210.45	1,720.81	1,664.98	55.83	30.824	
12,500.00	10,473.71	10,849.77	8,885.32	50.06	44.08	22.57	2,012.53	209.78	1,720.15	1,663.04	57.11	30.119	
12,600.00	10,473.21	10,949.76	8,885.53	51.19	45.27	22.58	2,112.52	209.12	1,719.50	1,661.06	58.43	29.427	
12,700.00	10,472.70	11,049.76	8,885.74	52.34	46.48	22.59	2,212.52	208.45	1,718.84	1,659.06	59.78	28.751	
12,800.00	10,472.20	11,149.76	8,885.94	53.52	47.72	22.60	2,312.51	207.79	1,718.19	1,657.02	61.16	28.092	
12,900.00	10,471.70	11,249.75	8,886.15	54.73	48.98	22.61	2,412.50	207.12	1,717.53	1,654.96	62.57	27.450	
13,000.00	10,471.19	11,349.75	8,886.35	55.96	50.26	22.62	2,512.50	206.46	1,716.88	1,652.87	64.00	26.826	
13,100.00	10,470.69	11,449.74	8,886.56	57.21	51.57	22.63	2,612.49	205.79	1,716.22	1,650.76	65.46	26.219	
13,200.00	10,470.19	11,549.74	8,886.77	58.48	52.90	22.64	2,712.48	205.12	1,715.57	1,648.63	66.93	25.631	
13,300.00	10,469.68	11,649.73	8,886.97	59.77	54.24	22.64	2,812.48	204.46	1,714.91	1,646.48	68.43	25.061	
13,400.00	10,469.18	11,749.73	8,887.18	61.07	55.60	22.65	2,912.47	203.79	1,714.26	1,644.31	69.95	24.508	
13,500.00	10,468.68	11,849.72	8,887.38	62.40	56.98	22.66	3,012.46	203.12	1,713.61	1,642.13	71.48	23.973	
13,600.00	10,468.18	11,949.72	8,887.59	63.73	58.37	22.67	3,112.45	202.46	1,712.95	1,639.92	73.03	23.456	
13,700.00	10,467.67	12,049.72	8,887.79	65.09	59.78	22.68	3,212.45	201.79	1,712.30	1,637.70	74.60	22.954	
13,800.00	10,467.17	12,149.71	8,888.00	66.46	61.20	22.69	3,312.44	201.12	1,711.65	1,635.47	76.18	22.470	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 304H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,466.67	12,249.71	8,888.20	67.83	62.62	22.70	3,412.43	200.46	1,711.00	1,633.23	77.77	22.001	
14,000.00	10,466.17	12,349.70	8,888.40	69.23	64.07	22.71	3,512.43	199.79	1,710.34	1,630.97	79.38	21.548	
14,100.00	10,465.67	12,449.70	8,888.61	70.63	65.52	22.72	3,612.42	199.12	1,709.69	1,628.70	80.99	21.109	
14,200.00	10,465.17	12,549.69	8,888.81	72.04	66.98	22.73	3,712.41	198.45	1,709.04	1,626.42	82.62	20.685	
14,300.00	10,464.66	12,649.69	8,889.01	73.47	68.44	22.74	3,812.41	197.79	1,708.39	1,624.13	84.26	20.275	
14,400.00	10,464.16	12,749.69	8,889.22	74.90	69.92	22.74	3,912.40	197.12	1,707.74	1,621.83	85.91	19.878	
14,500.00	10,463.66	12,849.68	8,889.42	76.34	71.41	22.75	4,012.39	196.45	1,707.09	1,619.52	87.57	19.494	
14,600.00	10,463.16	12,949.68	8,889.62	77.80	72.90	22.76	4,112.39	195.78	1,706.44	1,617.21	89.23	19.123	
14,700.00	10,462.66	13,049.67	8,889.83	79.26	74.40	22.77	4,212.38	195.11	1,705.79	1,614.88	90.91	18.764	
14,800.00	10,462.16	13,149.67	8,890.03	80.72	75.90	22.78	4,312.37	194.45	1,705.14	1,612.55	92.59	18.416	
14,900.00	10,461.66	13,249.66	8,890.23	82.20	77.42	22.79	4,412.37	193.78	1,704.49	1,610.21	94.28	18.079	
15,000.00	10,461.16	13,349.66	8,890.43	83.68	78.93	22.80	4,512.36	193.11	1,703.84	1,607.87	95.98	17.752	
15,100.00	10,460.66	13,449.65	8,890.64	85.16	80.46	22.81	4,612.35	192.44	1,703.20	1,605.52	97.68	17.437	
15,200.00	10,460.16	13,549.65	8,890.84	86.66	81.99	22.82	4,712.35	191.77	1,702.55	1,603.16	99.39	17.130	
15,300.00	10,459.66	13,649.65	8,891.04	88.16	83.52	22.83	4,812.34	191.10	1,701.90	1,600.80	101.10	16.834	
15,400.00	10,459.16	13,749.64	8,891.24	89.66	85.06	22.84	4,912.33	190.43	1,701.25	1,598.43	102.82	16.546	
15,500.00	10,458.66	13,849.64	8,891.44	91.17	86.60	22.84	5,012.33	189.76	1,700.61	1,596.06	104.55	16.267	
15,600.00	10,458.16	13,949.63	8,891.64	92.69	88.15	22.85	5,112.32	189.09	1,699.96	1,593.69	106.27	15.996	
15,700.00	10,457.66	14,049.63	8,891.84	94.21	89.70	22.86	5,212.31	188.42	1,699.31	1,591.31	108.01	15.733	
15,800.00	10,457.16	14,149.62	8,892.05	95.73	91.25	22.87	5,312.31	187.76	1,698.67	1,588.92	109.74	15.478	
15,900.00	10,456.66	14,249.62	8,892.25	97.26	92.81	22.88	5,412.30	187.09	1,698.02	1,586.54	111.49	15.231	
16,000.00	10,456.16	14,349.62	8,892.45	98.79	94.37	22.89	5,512.29	186.42	1,697.38	1,584.14	113.23	14.990	
16,100.00	10,455.66	14,449.61	8,892.65	100.33	95.93	22.90	5,612.28	185.75	1,696.73	1,581.75	114.98	14.757	
16,200.00	10,455.16	14,549.61	8,892.85	101.87	97.50	22.91	5,712.28	185.08	1,696.09	1,579.36	116.73	14.530	
16,300.00	10,454.67	14,649.60	8,893.05	103.41	99.07	22.92	5,812.27	184.40	1,695.44	1,576.96	118.49	14.309	
16,400.00	10,454.17	14,749.60	8,893.25	104.96	100.64	22.93	5,912.26	183.73	1,694.80	1,574.56	120.24	14.095	
16,500.00	10,453.67	14,849.59	8,893.45	106.51	102.22	22.94	6,012.26	183.06	1,694.16	1,572.15	122.01	13.886	
16,600.00	10,453.17	14,949.59	8,893.65	108.07	103.80	22.94	6,112.25	182.39	1,693.51	1,569.74	123.77	13.683	
16,700.00	10,452.67	15,049.59	8,893.85	109.62	105.38	22.95	6,212.24	181.72	1,692.87	1,567.33	125.54	13.485	
16,800.00	10,452.17	15,149.58	8,894.04	111.18	106.96	22.96	6,312.24	181.05	1,692.23	1,564.92	127.30	13.293	
16,900.00	10,451.68	15,249.58	8,894.24	112.74	108.55	22.97	6,412.23	180.38	1,691.58	1,562.51	129.07	13.106	
17,000.00	10,451.18	15,349.57	8,894.44	114.31	110.13	22.98	6,512.22	179.71	1,690.94	1,560.10	130.85	12.923	
17,100.00	10,450.68	15,449.57	8,894.64	115.88	111.72	22.99	6,612.22	179.04	1,690.30	1,557.68	132.62	12.745	
17,200.00	10,450.18	15,549.56	8,894.84	117.45	113.31	23.00	6,712.21	178.37	1,689.66	1,555.26	134.40	12.572	
17,300.00	10,449.69	15,649.56	8,895.04	119.02	114.91	23.01	6,812.20	177.69	1,689.02	1,552.84	136.18	12.403	
17,400.00	10,449.19	15,749.56	8,895.24	120.60	116.50	23.02	6,912.20	177.02	1,688.38	1,550.42	137.95	12.239	
17,500.00	10,448.69	15,849.55	8,895.43	122.17	118.10	23.03	7,012.19	176.35	1,687.74	1,548.00	139.74	12.078	
17,600.00	10,448.20	15,949.55	8,895.63	123.75	119.70	23.04	7,112.18	175.68	1,687.10	1,545.57	141.52	11.921	
17,700.00	10,447.70	16,049.54	8,895.83	125.33	121.29	23.05	7,212.18	175.01	1,686.46	1,543.15	143.31	11.768	
17,800.00	10,447.20	16,149.54	8,896.03	126.91	122.90	23.05	7,312.17	174.33	1,685.82	1,540.72	145.09	11.619	
17,900.00	10,446.71	16,249.53	8,896.22	128.50	124.50	23.06	7,412.16	173.66	1,685.18	1,538.30	146.88	11.473	
18,000.00	10,446.21	16,349.53	8,896.42	130.09	126.10	23.07	7,512.16	172.99	1,684.54	1,535.87	148.67	11.331	
18,100.00	10,445.71	16,449.53	8,896.62	131.67	127.71	23.08	7,612.15	172.32	1,683.90	1,533.44	150.46	11.192	
18,200.00	10,445.22	16,549.52	8,896.81	133.26	129.31	23.09	7,712.14	171.64	1,683.26	1,531.01	152.25	11.056	
18,300.00	10,444.72	16,649.52	8,897.01	134.86	130.92	23.10	7,812.14	170.97	1,682.62	1,528.58	154.04	10.923	
18,400.00	10,444.23	16,749.51	8,897.21	136.45	132.53	23.11	7,912.13	170.30	1,681.98	1,526.15	155.83	10.794	
18,500.00	10,443.73	16,849.51	8,897.40	138.04	134.14	23.12	8,012.12	169.62	1,681.35	1,523.72	157.62	10.667	
18,600.00	10,443.24	16,949.50	8,897.60	139.64	135.75	23.13	8,112.12	168.95	1,680.71	1,521.29	159.42	10.543	
18,700.00	10,442.74	17,049.50	8,897.79	141.24	137.36	23.14	8,212.11	168.28	1,680.07	1,518.86	161.21	10.421	
18,800.00	10,442.25	17,149.50	8,897.99	142.84	138.98	23.15	8,312.10	167.60	1,679.44	1,516.43	163.01	10.303	
18,900.00	10,441.75	17,249.49	8,898.18	144.44	140.59	23.16	8,412.10	166.93	1,678.80	1,514.00	164.80	10.187	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 304H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	10,441.26	17,349.49	8,898.38	146.04	142.21	23.16	8,512.09	166.26	1,678.17	1,511.56	166.60	10.073	
19,100.00	10,440.76	17,449.48	8,898.58	147.64	143.82	23.17	8,612.08	165.58	1,677.53	1,509.13	168.40	9.962	
19,200.00	10,440.27	17,549.48	8,898.77	149.24	145.44	23.18	8,712.08	164.91	1,676.89	1,506.70	170.20	9.853	
19,300.00	10,439.77	17,649.47	8,898.96	150.85	147.06	23.19	8,812.07	164.23	1,676.26	1,504.26	172.00	9.746	
19,400.00	10,439.28	17,749.47	8,899.16	152.45	148.68	23.20	8,912.06	163.56	1,675.62	1,501.83	173.80	9.641	
19,500.00	10,438.78	17,849.47	8,899.35	154.06	150.30	23.21	9,012.06	162.88	1,674.99	1,499.40	175.59	9.539	
19,600.00	10,438.29	17,949.46	8,899.55	155.67	151.92	23.22	9,112.05	162.21	1,674.36	1,496.96	177.39	9.439	
19,700.00	10,437.80	18,049.46	8,899.74	157.28	153.54	23.23	9,212.04	161.53	1,673.72	1,494.53	179.19	9.340	
19,800.00	10,437.30	18,149.45	8,899.94	158.89	155.16	23.24	9,312.04	160.86	1,673.09	1,492.09	181.00	9.244	
19,900.00	10,436.81	18,249.45	8,900.13	160.50	156.78	23.25	9,412.03	160.18	1,672.46	1,489.66	182.80	9.149	
20,000.00	10,436.32	18,349.45	8,900.32	162.11	158.41	23.26	9,512.02	159.51	1,671.82	1,487.23	184.60	9.057	
20,100.00	10,435.82	18,449.44	8,900.52	163.72	160.03	23.27	9,612.02	158.83	1,671.19	1,484.79	186.40	8.966	
20,200.00	10,435.33	18,549.44	8,900.71	165.34	161.65	23.27	9,712.01	158.16	1,670.56	1,482.36	188.20	8.877	
20,300.00	10,434.84	18,649.43	8,900.90	166.95	163.28	23.28	9,812.00	157.48	1,669.93	1,479.93	190.00	8.789	
20,400.00	10,434.34	18,749.43	8,901.09	168.57	164.91	23.29	9,912.00	156.81	1,669.30	1,477.49	191.81	8.703	
20,500.00	10,433.85	18,849.42	8,901.29	170.18	166.53	23.30	10,011.99	156.13	1,668.67	1,475.06	193.61	8.619	
20,600.00	10,433.36	18,949.42	8,901.48	171.80	168.16	23.31	10,111.98	155.46	1,668.04	1,472.63	195.41	8.536	
20,700.00	10,432.86	19,049.42	8,901.67	173.42	169.79	23.32	10,211.98	154.78	1,667.40	1,470.20	197.21	8.455	
20,800.00	10,432.37	19,149.41	8,901.86	175.04	171.41	23.33	10,311.97	154.10	1,666.77	1,467.76	199.01	8.375	
20,875.64	10,432.00	19,220.64	8,902.00	176.26	172.57	23.34	10,383.19	153.62	1,666.30	1,465.95	200.35	8.317 SF	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 305H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	10.00	10.00	0.00	0.01	79.54	232.11	1,257.55	1,278.80				
100.00	100.00	110.00	110.00	0.14	0.17	79.54	232.11	1,257.55	1,278.80	1,278.49	0.31	4,184.578	
200.00	200.00	210.00	210.00	0.49	0.53	79.54	232.11	1,257.55	1,278.80	1,277.77	1.02	1,250.607	
300.00	300.00	310.00	310.00	0.85	0.89	79.54	232.11	1,257.55	1,278.80	1,277.06	1.74	735.159	
400.00	400.00	410.00	410.00	1.21	1.25	79.54	232.11	1,257.55	1,278.80	1,276.34	2.46	520.592	
500.00	500.00	510.00	510.00	1.57	1.60	79.54	232.11	1,257.55	1,278.80	1,275.62	3.17	402.977	
600.00	600.00	610.00	610.00	1.93	1.96	79.54	232.11	1,257.55	1,278.80	1,274.91	3.89	328.713	
700.00	700.00	710.00	710.00	2.29	2.32	79.54	232.11	1,257.55	1,278.80	1,274.19	4.61	277.561	
800.00	800.00	810.00	810.00	2.64	2.68	79.54	232.11	1,257.55	1,278.80	1,273.47	5.32	240.186	
900.00	900.00	910.00	910.00	3.00	3.04	79.54	232.11	1,257.55	1,278.80	1,272.75	6.04	211.681	
1,000.00	1,000.00	1,010.00	1,010.00	3.36	3.40	79.54	232.11	1,257.55	1,278.80	1,272.04	6.76	189.225	
1,100.00	1,100.00	1,110.00	1,110.00	3.72	3.75	79.54	232.11	1,257.55	1,278.80	1,271.32	7.48	171.076	
1,200.00	1,200.00	1,210.00	1,210.00	4.08	4.11	79.54	232.11	1,257.55	1,278.80	1,270.60	8.19	156.104	
1,300.00	1,300.00	1,310.00	1,310.00	4.44	4.47	79.54	232.11	1,257.55	1,278.80	1,269.89	8.91	143.541	
1,400.00	1,400.00	1,410.00	1,410.00	4.80	4.83	79.54	232.11	1,257.55	1,278.80	1,269.17	9.63	132.850	
1,500.00	1,500.00	1,510.00	1,510.00	5.15	5.19	79.54	232.11	1,257.55	1,278.80	1,268.45	10.34	123.641	
1,600.00	1,600.00	1,610.00	1,610.00	5.51	5.55	79.54	232.11	1,257.55	1,278.80	1,267.74	11.06	115.626	
1,700.00	1,700.00	1,710.00	1,710.00	5.87	5.91	79.54	232.11	1,257.55	1,278.80	1,267.02	11.78	108.587	
1,800.00	1,800.00	1,810.00	1,810.00	6.23	6.26	79.54	232.11	1,257.55	1,278.80	1,266.30	12.49	102.356	
1,900.00	1,900.00	1,910.00	1,910.00	6.59	6.62	79.54	232.11	1,257.55	1,278.80	1,265.59	13.21	96.801	
2,000.00	2,000.00	2,010.00	2,010.00	6.95	6.98	79.54	232.11	1,257.55	1,278.80	1,264.87	13.93	91.818	
2,100.00	2,100.00	2,110.00	2,110.00	7.30	7.34	79.54	232.11	1,257.55	1,278.80	1,264.15	14.64	87.323	
2,200.00	2,200.00	2,215.70	2,215.70	7.66	7.72	79.54	232.08	1,257.53	1,278.77	1,263.39	15.38	83.149	
2,300.00	2,299.98	2,372.62	2,372.51	8.01	8.25	-164.37	228.37	1,253.95	1,277.78	1,261.55	16.24	78.702	
2,400.00	2,399.84	2,529.19	2,528.46	8.34	8.77	-164.12	218.51	1,244.44	1,275.71	1,258.67	17.04	74.852	
2,500.00	2,499.45	2,685.12	2,682.80	8.68	9.30	-163.72	202.62	1,229.11	1,272.60	1,254.77	17.83	71.376	
2,600.00	2,598.70	2,825.85	2,820.91	9.03	9.81	-163.23	183.19	1,210.36	1,268.65	1,250.07	18.58	68.283	
2,700.00	2,697.47	2,925.51	2,918.39	9.38	10.18	-162.88	168.27	1,195.98	1,266.91	1,247.64	19.27	65.743	
2,701.60	2,699.04	2,927.10	2,919.95	9.39	10.19	-162.88	168.03	1,195.75	1,266.91	1,247.62	19.28	65.705	CC, ES
2,800.00	2,795.62	3,025.25	3,015.95	9.75	10.57	-162.56	153.35	1,181.58	1,268.54	1,248.57	19.97	63.518	
2,900.00	2,893.44	3,124.99	3,113.51	10.13	10.96	-162.27	138.42	1,167.18	1,271.87	1,251.19	20.68	61.498	
3,000.00	2,991.25	3,224.73	3,211.07	10.51	11.36	-161.98	123.50	1,152.78	1,275.24	1,253.84	21.40	59.587	
3,100.00	3,089.07	3,324.46	3,308.63	10.91	11.76	-161.70	108.57	1,138.39	1,278.63	1,256.50	22.13	57.779	
3,200.00	3,186.88	3,424.20	3,406.18	11.31	12.18	-161.41	93.65	1,123.99	1,282.06	1,259.20	22.87	56.068	
3,300.00	3,284.70	3,523.94	3,503.74	11.72	12.60	-161.13	78.72	1,109.59	1,285.52	1,261.91	23.61	54.448	
3,400.00	3,382.51	3,623.68	3,601.30	12.14	13.02	-160.85	63.80	1,095.20	1,289.02	1,264.65	24.36	52.912	
3,500.00	3,480.33	3,723.42	3,698.86	12.56	13.45	-160.57	48.88	1,080.80	1,292.54	1,267.42	25.12	51.456	
3,600.00	3,578.14	3,823.16	3,796.42	12.99	13.88	-160.29	33.95	1,066.40	1,296.09	1,270.21	25.88	50.075	
3,700.00	3,675.96	3,922.89	3,893.98	13.42	14.32	-160.01	19.03	1,052.01	1,299.68	1,273.02	26.65	48.763	
3,800.00	3,773.77	4,022.63	3,991.54	13.86	14.76	-159.74	4.10	1,037.61	1,303.29	1,275.86	27.43	47.517	
3,900.00	3,871.59	4,122.37	4,089.10	14.30	15.20	-159.46	-10.82	1,023.21	1,306.93	1,278.73	28.21	46.331	
4,000.00	3,969.40	4,222.11	4,186.66	14.75	15.65	-159.19	-25.75	1,008.82	1,310.61	1,281.62	28.99	45.203	
4,100.00	4,067.22	4,321.85	4,284.21	15.19	16.10	-158.92	-40.67	994.42	1,314.31	1,284.53	29.78	44.128	
4,200.00	4,165.03	4,421.59	4,381.77	15.64	16.55	-158.65	-55.60	980.02	1,318.05	1,287.47	30.58	43.104	
4,300.00	4,262.84	4,521.32	4,479.33	16.10	17.00	-158.38	-70.52	965.63	1,321.81	1,290.43	31.38	42.126	
4,400.00	4,360.66	4,621.06	4,576.89	16.55	17.46	-158.12	-85.45	951.23	1,325.60	1,293.42	32.18	41.193	
4,500.00	4,458.47	4,720.80	4,674.45	17.01	17.92	-157.85	-100.37	936.83	1,329.42	1,296.43	32.99	40.301	
4,529.32	4,487.15	4,750.04	4,703.05	17.14	18.05	-157.78	-104.75	932.61	1,330.54	1,297.32	33.22	40.047	
4,600.00	4,556.46	4,800.00	4,751.93	17.46	18.28	-157.65	-112.19	925.43	1,332.65	1,298.91	33.74	39.501	
4,700.00	4,655.06	4,885.56	4,835.96	17.90	18.66	-157.44	-123.77	914.26	1,334.21	1,299.72	34.49	38.684	
4,800.00	4,754.18	4,959.87	4,909.30	18.31	18.98	-157.25	-132.36	905.98	1,334.56	1,299.37	35.18	37.930	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 305H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	5,034.26	4,983.01	18.69	19.29	-157.07	-139.58	899.01	1,333.62	1,297.76	35.85	37.196	
5,000.00	4,953.50	5,100.00	5,048.34	19.05	19.55	-156.91	-144.82	893.96	1,331.42	1,294.96	36.46	36.515	
5,100.00	5,053.46	5,183.33	5,131.37	19.39	19.87	-156.72	-149.90	889.06	1,327.85	1,290.74	37.11	35.777	
5,129.32	5,082.78	5,200.00	5,148.00	19.49	19.93	87.33	-150.71	888.28	1,326.59	1,289.32	37.27	35.597	
5,200.00	5,153.46	5,258.04	5,205.95	19.71	20.13	87.42	-152.97	886.09	1,323.83	1,286.13	37.70	35.115	
5,300.00	5,253.46	5,332.91	5,280.78	20.04	20.39	87.49	-154.65	884.47	1,321.57	1,283.31	38.26	34.539	
5,400.00	5,353.46	5,415.58	5,363.46	20.36	20.65	87.51	-154.99	884.14	1,321.12	1,282.27	38.84	34.011	
5,500.00	5,453.46	5,515.58	5,463.46	20.68	20.97	87.51	-154.99	884.14	1,321.12	1,281.61	39.51	33.440	
5,600.00	5,553.46	5,615.58	5,563.46	21.00	21.28	87.51	-154.99	884.14	1,321.12	1,280.94	40.17	32.886	
5,700.00	5,653.46	5,715.58	5,663.46	21.33	21.60	87.51	-154.99	884.14	1,321.12	1,280.28	40.84	32.349	
5,800.00	5,753.46	5,815.58	5,763.46	21.65	21.91	87.51	-154.99	884.14	1,321.12	1,279.61	41.51	31.827	
5,900.00	5,853.46	5,915.58	5,863.46	21.98	22.23	87.51	-154.99	884.14	1,321.12	1,278.94	42.18	31.321	
6,000.00	5,953.46	6,015.58	5,963.46	22.31	22.55	87.51	-154.99	884.14	1,321.12	1,278.26	42.85	30.830	
6,100.00	6,053.46	6,115.58	6,063.46	22.64	22.87	87.51	-154.99	884.14	1,321.12	1,277.59	43.52	30.353	
6,200.00	6,153.46	6,215.58	6,163.46	22.97	23.20	87.51	-154.99	884.14	1,321.12	1,276.92	44.20	29.890	
6,300.00	6,253.46	6,315.58	6,263.46	23.30	23.52	87.51	-154.99	884.14	1,321.12	1,276.24	44.88	29.439	
6,400.00	6,353.46	6,415.58	6,363.46	23.63	23.84	87.51	-154.99	884.14	1,321.12	1,275.56	45.55	29.002	
6,500.00	6,453.46	6,515.58	6,463.46	23.96	24.17	87.51	-154.99	884.14	1,321.12	1,274.88	46.23	28.576	
6,600.00	6,553.46	6,615.58	6,563.46	24.30	24.49	87.51	-154.99	884.14	1,321.12	1,274.20	46.91	28.162	
6,700.00	6,653.46	6,715.58	6,663.46	24.63	24.82	87.51	-154.99	884.14	1,321.12	1,273.52	47.59	27.759	
6,800.00	6,753.46	6,815.58	6,763.46	24.96	25.15	87.51	-154.99	884.14	1,321.12	1,272.84	48.27	27.367	
6,900.00	6,853.46	6,915.58	6,863.46	25.30	25.48	87.51	-154.99	884.14	1,321.12	1,272.16	48.96	26.986	
7,000.00	6,953.46	7,015.58	6,963.46	25.64	25.81	87.51	-154.99	884.14	1,321.12	1,271.48	49.64	26.614	
7,100.00	7,053.46	7,115.58	7,063.46	25.97	26.14	87.51	-154.99	884.14	1,321.12	1,270.79	50.32	26.252	
7,200.00	7,153.46	7,215.58	7,163.46	26.31	26.47	87.51	-154.99	884.14	1,321.12	1,270.11	51.01	25.899	
7,300.00	7,253.46	7,315.58	7,263.46	26.65	26.80	87.51	-154.99	884.14	1,321.12	1,269.42	51.70	25.556	
7,400.00	7,353.46	7,415.58	7,363.46	26.98	27.13	87.51	-154.99	884.14	1,321.12	1,268.73	52.38	25.220	
7,500.00	7,453.46	7,515.58	7,463.46	27.32	27.46	87.51	-154.99	884.14	1,321.12	1,268.04	53.07	24.893	
7,600.00	7,553.46	7,615.58	7,563.46	27.66	27.80	87.51	-154.99	884.14	1,321.12	1,267.36	53.76	24.575	
7,700.00	7,653.46	7,715.58	7,663.46	28.00	28.13	87.51	-154.99	884.14	1,321.12	1,266.67	54.45	24.263	
7,800.00	7,753.46	7,815.58	7,763.46	28.34	28.47	87.51	-154.99	884.14	1,321.12	1,265.98	55.14	23.960	
7,900.00	7,853.46	7,915.58	7,863.46	28.68	28.80	87.51	-154.99	884.14	1,321.12	1,265.29	55.83	23.663	
8,000.00	7,953.46	8,015.58	7,963.46	29.02	29.14	87.51	-154.99	884.14	1,321.12	1,264.59	56.52	23.374	
8,100.00	8,053.46	8,115.58	8,063.46	29.36	29.47	87.51	-154.99	884.14	1,321.12	1,263.90	57.21	23.091	
8,200.00	8,153.46	8,215.58	8,163.46	29.71	29.81	87.51	-154.99	884.14	1,321.12	1,263.21	57.91	22.815	
8,300.00	8,253.46	8,315.58	8,263.46	30.05	30.15	87.51	-154.99	884.14	1,321.12	1,262.52	58.60	22.545	
8,309.41	8,262.86	8,324.99	8,272.86	30.08	30.18	87.51	-154.99	884.14	1,321.12	1,262.45	58.66	22.520	
8,400.00	8,353.46	8,412.85	8,360.71	30.39	30.47	87.47	-154.11	884.14	1,321.15	1,261.88	59.27	22.289	
8,500.00	8,453.46	8,503.17	8,450.13	30.73	30.75	86.95	-142.05	884.06	1,321.72	1,261.86	59.86	22.080	
8,600.00	8,553.46	8,587.77	8,531.20	31.08	30.97	85.91	-118.14	883.90	1,323.38	1,263.03	60.35	21.927	
8,700.00	8,653.46	8,663.94	8,600.48	31.42	31.13	84.55	-86.61	883.69	1,326.89	1,266.16	60.74	21.846	
8,800.00	8,753.46	8,730.63	8,657.23	31.76	31.24	83.05	-51.68	883.46	1,333.18	1,272.18	61.00	21.855	
8,900.00	8,853.46	8,788.01	8,702.55	32.11	31.32	81.55	-16.51	883.23	1,343.09	1,281.97	61.12	21.974	
9,000.00	8,953.46	8,836.99	8,738.28	32.45	31.37	80.13	16.96	883.00	1,357.34	1,296.25	61.09	22.220	
9,100.00	9,053.46	8,878.70	8,766.36	32.80	31.41	78.84	47.79	882.80	1,376.40	1,315.52	60.89	22.606	
9,200.00	9,153.46	8,914.30	8,788.50	33.14	31.44	77.67	75.66	882.62	1,400.57	1,340.05	60.52	23.143	
9,300.00	9,253.46	8,950.00	8,808.93	33.49	31.46	76.46	104.93	882.42	1,429.97	1,369.93	60.04	23.815	
9,400.00	9,353.46	8,971.12	8,820.14	33.83	31.46	75.73	122.83	882.30	1,464.51	1,405.15	59.36	24.673	
9,500.00	9,453.46	9,000.00	8,834.38	34.18	31.47	74.71	147.95	882.14	1,504.11	1,445.45	58.66	25.640	
9,600.00	9,553.46	9,000.00	8,834.38	34.53	31.47	74.71	147.95	882.14	1,548.60	1,490.94	57.66	26.858	
9,700.00	9,653.46	9,031.38	8,848.41	34.87	31.48	73.57	176.01	881.95	1,597.33	1,540.41	56.92	28.063	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 305H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,753.46	9,050.00	8,855.99	35.22	31.48	72.90	193.02	881.84	1,650.41	1,594.35	56.06	29.440	
9,900.00	9,853.46	9,050.00	8,855.99	35.57	31.48	72.90	193.02	881.84	1,707.43	1,652.39	55.05	31.017	
9,955.59	9,909.05	9,067.62	8,862.66	35.76	31.49	72.25	209.33	881.73	1,740.55	1,685.89	54.66	31.843	
10,000.00	9,953.41	9,073.44	8,864.75	35.91	31.49	69.24	214.76	881.69	1,767.40	1,713.12	54.28	32.562	
10,050.00	10,003.03	9,080.87	8,867.34	36.08	31.49	65.56	221.72	881.65	1,797.22	1,743.37	53.85	33.372	
10,100.00	10,051.93	9,100.00	8,873.59	36.23	31.49	61.79	239.80	881.53	1,826.49	1,772.96	53.53	34.121	
10,150.00	10,099.75	9,100.00	8,873.59	36.38	31.49	58.82	239.80	881.53	1,854.68	1,801.63	53.05	34.960	
10,200.00	10,146.11	9,100.00	8,873.59	36.52	31.49	56.09	239.80	881.53	1,881.92	1,829.33	52.58	35.788	
10,250.00	10,190.67	9,118.06	8,878.94	36.64	31.49	53.23	257.05	881.41	1,907.76	1,855.48	52.28	36.493	
10,300.00	10,233.09	9,128.83	8,881.87	36.75	31.49	50.83	267.42	881.34	1,932.17	1,880.25	51.93	37.210	
10,350.00	10,273.04	9,150.00	8,887.05	36.85	31.50	48.56	287.94	881.21	1,955.04	1,903.38	51.67	37.840	
10,400.00	10,310.22	9,150.00	8,887.05	36.94	31.50	46.85	287.94	881.21	1,975.95	1,924.66	51.28	38.529	
10,450.00	10,344.35	9,150.00	8,887.05	37.01	31.50	45.35	287.94	881.21	1,995.18	1,944.24	50.94	39.168	
10,500.00	10,375.16	9,175.94	8,892.36	37.07	31.51	43.82	313.33	881.04	2,012.04	1,961.25	50.78	39.619	
10,550.00	10,402.43	9,200.00	8,896.26	37.11	31.52	42.57	337.06	880.88	2,027.04	1,976.40	50.64	40.028	
10,600.00	10,425.94	9,200.00	8,896.26	37.15	31.52	41.70	337.06	880.88	2,039.56	1,989.15	50.41	40.457	
10,650.00	10,445.52	9,200.00	8,896.26	37.19	31.52	40.99	337.06	880.88	2,050.08	1,999.84	50.24	40.807	
10,700.00	10,461.01	9,227.19	8,899.46	37.23	31.55	40.35	364.06	880.70	2,057.86	2,007.64	50.23	40.972	
10,750.00	10,472.31	9,250.00	8,901.15	37.30	31.59	39.94	386.81	880.55	2,063.50	2,013.27	50.23	41.081	
10,800.00	10,479.31	9,250.00	8,901.15	37.41	31.59	39.74	386.81	880.55	2,066.54	2,016.32	50.22	41.153	
10,850.00	10,481.98	9,266.79	8,901.82	37.55	31.62	39.70	403.58	880.44	2,067.17	2,016.86	50.30	41.094	
10,858.49	10,482.00	9,269.04	8,901.87	37.57	31.62	39.70	405.83	880.43	2,067.03	2,016.71	50.32	41.076	
10,900.00	10,481.79	9,280.56	8,902.00	37.70	31.64	39.71	417.36	880.35	2,066.50	2,016.08	50.43	40.982	
11,000.00	10,481.28	9,378.54	8,902.10	38.06	31.92	39.72	515.33	879.70	2,066.03	2,015.17	50.86	40.621	
11,100.00	10,480.78	9,478.54	8,902.20	38.49	32.31	39.73	615.32	879.04	2,065.56	2,014.16	51.41	40.181	
11,200.00	10,480.27	9,578.54	8,902.31	38.98	32.78	39.74	715.32	878.37	2,065.09	2,013.03	52.06	39.668	
11,300.00	10,479.77	9,678.53	8,902.41	39.53	33.32	39.75	815.32	877.71	2,064.62	2,011.81	52.82	39.091	
11,400.00	10,479.26	9,778.53	8,902.52	40.14	33.93	39.76	915.31	877.04	2,064.15	2,010.48	53.67	38.459	
11,500.00	10,478.76	9,878.53	8,902.62	40.81	34.60	39.77	1,015.31	876.38	2,063.69	2,009.06	54.62	37.781	
11,600.00	10,478.25	9,978.53	8,902.73	41.54	35.34	39.78	1,115.30	875.72	2,063.22	2,007.55	55.66	37.066	
11,700.00	10,477.75	10,078.53	8,902.83	42.31	36.13	39.79	1,215.30	875.05	2,062.75	2,005.96	56.79	36.324	
11,800.00	10,477.24	10,178.53	8,902.93	43.14	36.98	39.81	1,315.30	874.39	2,062.28	2,004.29	57.99	35.562	
11,900.00	10,476.74	10,278.52	8,903.04	44.01	37.89	39.82	1,415.29	873.72	2,061.81	2,002.55	59.27	34.788	
12,000.00	10,476.23	10,378.52	8,903.14	44.92	38.84	39.83	1,515.29	873.06	2,061.35	2,000.73	60.62	34.006	
12,100.00	10,475.73	10,478.52	8,903.25	45.88	39.84	39.84	1,615.28	872.40	2,060.88	1,998.85	62.03	33.223	
12,200.00	10,475.22	10,578.52	8,903.35	46.87	40.88	39.85	1,715.28	871.73	2,060.41	1,996.91	63.51	32.444	
12,300.00	10,474.72	10,678.52	8,903.45	47.90	41.96	39.86	1,815.28	871.07	2,059.95	1,994.91	65.04	31.674	
12,400.00	10,474.22	10,778.52	8,903.56	48.97	43.07	39.87	1,915.27	870.40	2,059.48	1,992.86	66.62	30.915	
12,500.00	10,473.71	10,878.51	8,903.66	50.06	44.22	39.88	2,015.27	869.74	2,059.01	1,990.77	68.25	30.170	
12,600.00	10,473.21	10,978.51	8,903.76	51.19	45.40	39.89	2,115.26	869.07	2,058.55	1,988.62	69.92	29.440	
12,700.00	10,472.70	11,078.51	8,903.87	52.34	46.61	39.90	2,215.26	868.41	2,058.08	1,986.44	71.64	28.727	
12,800.00	10,472.20	11,178.51	8,903.97	53.52	47.85	39.91	2,315.26	867.74	2,057.62	1,984.21	73.40	28.032	
12,900.00	10,471.70	11,278.51	8,904.07	54.73	49.11	39.92	2,415.25	867.08	2,057.15	1,981.96	75.19	27.358	
13,000.00	10,471.19	11,378.50	8,904.18	55.96	50.39	39.94	2,515.25	866.41	2,056.69	1,979.66	77.02	26.703	
13,100.00	10,470.69	11,478.50	8,904.28	57.21	51.69	39.95	2,615.24	865.74	2,056.22	1,977.34	78.88	26.068	
13,200.00	10,470.19	11,578.50	8,904.38	58.48	53.02	39.96	2,715.24	865.08	2,055.76	1,974.99	80.77	25.453	
13,300.00	10,469.68	11,678.50	8,904.48	59.77	54.36	39.97	2,815.24	864.41	2,055.29	1,972.61	82.68	24.858	
13,400.00	10,469.18	11,778.50	8,904.59	61.07	55.72	39.98	2,915.23	863.75	2,054.83	1,970.21	84.62	24.284	
13,500.00	10,468.68	11,878.50	8,904.69	62.40	57.09	39.99	3,015.23	863.08	2,054.36	1,967.78	86.58	23.728	
13,600.00	10,468.18	11,978.49	8,904.79	63.73	58.48	40.00	3,115.22	862.41	2,053.90	1,965.34	88.56	23.191	
13,700.00	10,467.67	12,078.49	8,904.89	65.09	59.88	40.01	3,215.22	861.75	2,053.44	1,962.87	90.57	22.673	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 305H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	10,467.17	12,178.49	8,905.00	66.46	61.30	40.02	3,315.22	861.08	2,052.97	1,960.39	92.59	22.173	
13,900.00	10,466.67	12,278.49	8,905.10	67.83	62.72	40.03	3,415.21	860.41	2,052.51	1,957.88	94.63	21.691	
14,000.00	10,466.17	12,378.49	8,905.20	69.23	64.16	40.04	3,515.21	859.75	2,052.05	1,955.36	96.68	21.224	
14,100.00	10,465.67	12,478.49	8,905.30	70.63	65.61	40.05	3,615.20	859.08	2,051.58	1,952.83	98.75	20.775	
14,200.00	10,465.17	12,578.48	8,905.40	72.04	67.07	40.07	3,715.20	858.41	2,051.12	1,950.28	100.84	20.340	
14,300.00	10,464.66	12,678.48	8,905.51	73.47	68.53	40.08	3,815.20	857.75	2,050.66	1,947.72	102.94	19.921	
14,400.00	10,464.16	12,778.48	8,905.61	74.90	70.01	40.09	3,915.19	857.08	2,050.20	1,945.15	105.05	19.517	
14,500.00	10,463.66	12,878.48	8,905.71	76.34	71.49	40.10	4,015.19	856.41	2,049.74	1,942.56	107.17	19.126	
14,600.00	10,463.16	12,978.48	8,905.81	77.80	72.98	40.11	4,115.18	855.75	2,049.27	1,939.97	109.31	18.748	
14,700.00	10,462.66	13,078.48	8,905.91	79.26	74.48	40.12	4,215.18	855.08	2,048.81	1,937.36	111.45	18.383	
14,800.00	10,462.16	13,178.47	8,906.01	80.72	75.98	40.13	4,315.18	854.41	2,048.35	1,934.75	113.60	18.031	
14,900.00	10,461.66	13,278.47	8,906.11	82.20	77.49	40.14	4,415.17	853.74	2,047.89	1,932.13	115.77	17.690	
15,000.00	10,461.16	13,378.47	8,906.22	83.68	79.01	40.15	4,515.17	853.07	2,047.43	1,929.49	117.94	17.360	
15,100.00	10,460.66	13,478.47	8,906.32	85.16	80.53	40.16	4,615.16	852.41	2,046.97	1,926.85	120.12	17.041	
15,200.00	10,460.16	13,578.47	8,906.42	86.66	82.06	40.17	4,715.16	851.74	2,046.51	1,924.21	122.30	16.733	
15,300.00	10,459.66	13,678.47	8,906.52	88.16	83.59	40.18	4,815.16	851.07	2,046.05	1,921.55	124.50	16.434	
15,400.00	10,459.16	13,778.46	8,906.62	89.66	85.12	40.20	4,915.15	850.40	2,045.59	1,918.89	126.70	16.145	
15,500.00	10,458.66	13,878.46	8,906.72	91.17	86.66	40.21	5,015.15	849.73	2,045.13	1,916.23	128.90	15.866	
15,600.00	10,458.16	13,978.46	8,906.82	92.69	88.21	40.22	5,115.14	849.07	2,044.67	1,913.55	131.12	15.594	
15,700.00	10,457.66	14,078.46	8,906.92	94.21	89.76	40.23	5,215.14	848.40	2,044.21	1,910.88	133.34	15.331	
15,800.00	10,457.16	14,178.46	8,907.02	95.73	91.31	40.24	5,315.14	847.73	2,043.76	1,908.20	135.56	15.076	
15,900.00	10,456.66	14,278.46	8,907.12	97.26	92.87	40.25	5,415.13	847.06	2,043.30	1,905.51	137.79	14.829	
16,000.00	10,456.16	14,378.45	8,907.22	98.79	94.43	40.26	5,515.13	846.39	2,042.84	1,902.82	140.02	14.589	
16,100.00	10,455.66	14,478.45	8,907.32	100.33	95.99	40.27	5,615.12	845.72	2,042.38	1,900.12	142.26	14.357	
16,200.00	10,455.16	14,578.45	8,907.42	101.87	97.56	40.28	5,715.12	845.05	2,041.92	1,897.42	144.50	14.131	
16,300.00	10,454.67	14,678.45	8,907.52	103.41	99.12	40.29	5,815.12	844.38	2,041.47	1,894.72	146.75	13.912	
16,400.00	10,454.17	14,778.45	8,907.62	104.96	100.70	40.30	5,915.11	843.71	2,041.01	1,892.01	149.00	13.698	
16,500.00	10,453.67	14,878.45	8,907.72	106.51	102.27	40.31	6,015.11	843.04	2,040.55	1,889.30	151.25	13.491	
16,600.00	10,453.17	14,978.44	8,907.82	108.07	103.85	40.33	6,115.11	842.37	2,040.10	1,886.59	153.51	13.290	
16,700.00	10,452.67	15,078.44	8,907.92	109.62	105.43	40.34	6,215.10	841.70	2,039.64	1,883.87	155.77	13.094	
16,800.00	10,452.17	15,178.44	8,908.02	111.18	107.01	40.35	6,315.10	841.03	2,039.18	1,881.16	158.03	12.904	
16,900.00	10,451.68	15,278.44	8,908.12	112.74	108.59	40.36	6,415.09	840.36	2,038.73	1,878.43	160.29	12.719	
17,000.00	10,451.18	15,378.44	8,908.22	114.31	110.18	40.37	6,515.09	839.69	2,038.27	1,875.71	162.56	12.539	
17,100.00	10,450.68	15,478.44	8,908.32	115.88	111.77	40.38	6,615.09	839.02	2,037.82	1,872.99	164.83	12.363	
17,200.00	10,450.18	15,578.43	8,908.42	117.45	113.36	40.39	6,715.08	838.35	2,037.36	1,870.26	167.10	12.192	
17,300.00	10,449.69	15,678.43	8,908.52	119.02	114.95	40.40	6,815.08	837.68	2,036.90	1,867.53	169.38	12.026	
17,400.00	10,449.19	15,778.43	8,908.62	120.60	116.54	40.41	6,915.07	837.01	2,036.45	1,864.80	171.65	11.864	
17,500.00	10,448.69	15,878.43	8,908.72	122.17	118.14	40.42	7,015.07	836.34	2,036.00	1,862.06	173.93	11.706	
17,600.00	10,448.20	15,978.43	8,908.81	123.75	119.73	40.43	7,115.07	835.67	2,035.54	1,859.33	176.21	11.552	
17,700.00	10,447.70	16,078.43	8,908.91	125.33	121.33	40.44	7,215.06	835.00	2,035.09	1,856.59	178.50	11.401	
17,800.00	10,447.20	16,178.42	8,909.01	126.91	122.93	40.46	7,315.06	834.33	2,034.63	1,853.85	180.78	11.255	
17,900.00	10,446.71	16,278.42	8,909.11	128.50	124.53	40.47	7,415.05	833.66	2,034.18	1,851.11	183.07	11.112	
18,000.00	10,446.21	16,378.42	8,909.21	130.09	126.14	40.48	7,515.05	832.99	2,033.73	1,848.37	185.35	10.972	
18,100.00	10,445.71	16,478.42	8,909.31	131.67	127.74	40.49	7,615.05	832.32	2,033.27	1,845.63	187.64	10.836	
18,200.00	10,445.22	16,578.42	8,909.41	133.26	129.35	40.50	7,715.04	831.64	2,032.82	1,842.89	189.93	10.703	
18,300.00	10,444.72	16,678.42	8,909.50	134.86	130.95	40.51	7,815.04	830.97	2,032.37	1,840.14	192.22	10.573	
18,400.00	10,444.23	16,778.41	8,909.60	136.45	132.56	40.52	7,915.03	830.30	2,031.91	1,837.40	194.51	10.446	
18,500.00	10,443.73	16,878.41	8,909.70	138.04	134.17	40.53	8,015.03	829.63	2,031.46	1,834.65	196.81	10.322	
18,600.00	10,443.24	16,978.41	8,909.80	139.64	135.78	40.54	8,115.03	828.96	2,031.01	1,831.91	199.10	10.201	
18,700.00	10,442.74	17,078.41	8,909.90	141.24	137.39	40.55	8,215.02	828.29	2,030.56	1,829.16	201.40	10.082	
18,800.00	10,442.25	17,178.41	8,909.99	142.84	139.01	40.56	8,315.02	827.61	2,030.11	1,826.41	203.69	9.966	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 305H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	10,441.75	17,278.41	8,910.09	144.44	140.62	40.57	8,415.01	826.94	2,029.65	1,823.66	205.99	9.853	
19,000.00	10,441.26	17,378.40	8,910.19	146.04	142.23	40.59	8,515.01	826.27	2,029.20	1,820.91	208.29	9.742	
19,100.00	10,440.76	17,478.40	8,910.29	147.64	143.85	40.60	8,615.01	825.60	2,028.75	1,818.17	210.59	9.634	
19,200.00	10,440.27	17,578.40	8,910.38	149.24	145.47	40.61	8,715.00	824.92	2,028.30	1,815.42	212.88	9.528	
19,300.00	10,439.77	17,678.40	8,910.48	150.85	147.08	40.62	8,815.00	824.25	2,027.85	1,812.66	215.19	9.424	
19,400.00	10,439.28	17,778.40	8,910.58	152.45	148.70	40.63	8,915.00	823.58	2,027.40	1,809.92	217.48	9.322	
19,500.00	10,438.78	17,878.40	8,910.68	154.06	150.32	40.64	9,014.99	822.91	2,026.95	1,807.16	219.79	9.222	
19,600.00	10,438.29	17,978.40	8,910.77	155.67	151.94	40.65	9,114.99	822.23	2,026.50	1,804.41	222.09	9.125	
19,700.00	10,437.80	18,078.39	8,910.87	157.28	153.56	40.66	9,214.98	821.56	2,026.05	1,801.66	224.39	9.029	
19,800.00	10,437.30	18,178.39	8,910.97	158.89	155.18	40.67	9,314.98	820.89	2,025.60	1,798.91	226.69	8.936	
19,900.00	10,436.81	18,278.39	8,911.06	160.50	156.80	40.68	9,414.98	820.21	2,025.15	1,796.16	228.99	8.844	
20,000.00	10,436.32	18,378.39	8,911.16	162.11	158.43	40.69	9,514.97	819.54	2,024.70	1,793.41	231.29	8.754	
20,100.00	10,435.82	18,478.39	8,911.26	163.72	160.05	40.70	9,614.97	818.87	2,024.25	1,790.66	233.60	8.666	
20,200.00	10,435.33	18,578.39	8,911.35	165.34	161.68	40.72	9,714.96	818.19	2,023.81	1,787.91	235.90	8.579	
20,300.00	10,434.84	18,678.38	8,911.45	166.95	163.30	40.73	9,814.96	817.52	2,023.36	1,785.15	238.20	8.494	
20,400.00	10,434.34	18,778.38	8,911.55	168.57	164.93	40.74	9,914.96	816.84	2,022.91	1,782.41	240.50	8.411	
20,500.00	10,433.85	18,878.38	8,911.64	170.18	166.55	40.75	10,014.95	816.17	2,022.46	1,779.65	242.81	8.329	
20,600.00	10,433.36	18,978.38	8,911.74	171.80	168.18	40.76	10,114.95	815.50	2,022.01	1,776.90	245.11	8.249	
20,700.00	10,432.86	19,078.38	8,911.84	173.42	169.81	40.77	10,214.94	814.82	2,021.57	1,774.15	247.41	8.171	
20,800.00	10,432.37	19,178.38	8,911.93	175.04	171.43	40.78	10,314.94	814.15	2,021.12	1,771.40	249.72	8.094	
20,875.64	10,432.00	19,249.63	8,912.00	176.26	172.59	40.79	10,386.19	813.67	2,020.79	1,769.38	251.40	8.038	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 306H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	10.00	10.00	0.00	0.01	79.92	232.41	1,307.56	1,328.05				
100.00	100.00	110.00	110.00	0.14	0.17	79.92	232.41	1,307.56	1,328.05	1,327.75	0.31	4,345.755	
200.00	200.00	210.00	210.00	0.49	0.53	79.92	232.41	1,307.56	1,328.05	1,327.03	1.02	1,298.776	
300.00	300.00	310.00	310.00	0.85	0.89	79.92	232.41	1,307.56	1,328.05	1,326.31	1.74	763.474	
400.00	400.00	410.00	410.00	1.21	1.25	79.92	232.41	1,307.56	1,328.05	1,325.59	2.46	540.644	
500.00	500.00	510.00	510.00	1.57	1.60	79.92	232.41	1,307.56	1,328.05	1,324.88	3.17	418.499	
600.00	600.00	610.00	610.00	1.93	1.96	79.92	232.41	1,307.56	1,328.05	1,324.16	3.89	341.374	
700.00	700.00	710.00	710.00	2.29	2.32	79.92	232.41	1,307.56	1,328.05	1,323.44	4.61	288.252	
800.00	800.00	810.00	810.00	2.64	2.68	79.92	232.41	1,307.56	1,328.05	1,322.73	5.32	249.437	
900.00	900.00	910.00	910.00	3.00	3.04	79.92	232.41	1,307.56	1,328.05	1,322.01	6.04	219.834	
1,000.00	1,000.00	1,010.00	1,010.00	3.36	3.40	79.92	232.41	1,307.56	1,328.05	1,321.29	6.76	196.513	
1,100.00	1,100.00	1,110.00	1,110.00	3.72	3.75	79.92	232.41	1,307.56	1,328.05	1,320.58	7.48	177.665	
1,200.00	1,200.00	1,210.00	1,210.00	4.08	4.11	79.92	232.41	1,307.56	1,328.05	1,319.86	8.19	162.116	
1,300.00	1,300.00	1,310.00	1,310.00	4.44	4.47	79.92	232.41	1,307.56	1,328.05	1,319.14	8.91	149.070	
1,400.00	1,400.00	1,410.00	1,410.00	4.80	4.83	79.92	232.41	1,307.56	1,328.05	1,318.43	9.63	137.967	
1,500.00	1,500.00	1,510.00	1,510.00	5.15	5.19	79.92	232.41	1,307.56	1,328.05	1,317.71	10.34	128.403	
1,600.00	1,600.00	1,610.00	1,610.00	5.51	5.55	79.92	232.41	1,307.56	1,328.05	1,316.99	11.06	120.080	
1,700.00	1,700.00	1,710.00	1,710.00	5.87	5.91	79.92	232.41	1,307.56	1,328.05	1,316.27	11.78	112.770	
1,800.00	1,800.00	1,810.00	1,810.00	6.23	6.26	79.92	232.41	1,307.56	1,328.05	1,315.56	12.49	106.298	
1,900.00	1,900.00	1,910.00	1,910.00	6.59	6.62	79.92	232.41	1,307.56	1,328.05	1,314.84	13.21	100.529	
1,912.96	1,912.96	1,922.96	1,922.96	6.63	6.67	79.92	232.41	1,307.56	1,328.05	1,314.75	13.30	99.827	CC
2,000.00	2,000.00	2,008.54	2,008.54	6.95	6.97	79.92	232.40	1,307.56	1,328.06	1,314.14	13.92	95.401	ES
2,100.00	2,100.00	2,100.00	2,099.98	7.30	7.29	79.99	230.92	1,308.47	1,328.73	1,314.14	14.59	91.064	
2,200.00	2,200.00	2,179.18	2,179.06	7.66	7.55	80.15	227.64	1,310.50	1,330.48	1,315.28	15.21	87.502	
2,300.00	2,299.98	2,264.07	2,263.70	8.01	7.83	-163.59	222.06	1,313.94	1,335.05	1,319.22	15.83	84.357	
2,400.00	2,399.84	2,348.35	2,347.49	8.34	8.11	-163.24	214.40	1,318.66	1,344.10	1,327.67	16.44	81.783	
2,500.00	2,499.45	2,431.75	2,430.12	8.68	8.39	-162.80	204.77	1,324.60	1,357.65	1,340.61	17.04	79.655	
2,600.00	2,598.70	2,514.03	2,511.28	9.03	8.68	-162.29	193.26	1,331.69	1,375.68	1,358.03	17.65	77.931	
2,700.00	2,697.47	2,600.00	2,595.62	9.38	8.99	-161.67	179.12	1,340.41	1,398.18	1,379.89	18.28	76.477	
2,800.00	2,795.62	2,689.58	2,683.24	9.75	9.32	-161.01	163.27	1,350.18	1,424.59	1,405.65	18.94	75.225	
2,900.00	2,893.44	2,784.83	2,776.41	10.13	9.69	-160.53	146.41	1,360.58	1,452.71	1,433.08	19.63	74.014	
3,000.00	2,991.25	2,880.08	2,869.58	10.51	10.06	-160.06	129.55	1,370.97	1,480.93	1,460.60	20.33	72.857	
3,100.00	3,089.07	2,975.33	2,962.75	10.91	10.44	-159.62	112.70	1,381.36	1,509.23	1,488.19	21.04	71.745	
3,200.00	3,186.88	3,070.58	3,055.92	11.31	10.83	-159.19	95.84	1,391.76	1,537.61	1,515.85	21.75	70.679	
3,300.00	3,284.70	3,165.83	3,149.09	11.72	11.23	-158.77	78.98	1,402.15	1,566.07	1,543.59	22.48	69.658	
3,400.00	3,382.51	3,261.08	3,242.26	12.14	11.63	-158.37	62.12	1,412.54	1,594.60	1,571.38	23.22	68.681	
3,500.00	3,480.33	3,356.33	3,335.43	12.56	12.03	-157.99	45.26	1,422.93	1,623.20	1,599.25	23.96	67.748	
3,600.00	3,578.14	3,451.58	3,428.60	12.99	12.44	-157.62	28.41	1,433.33	1,651.87	1,627.17	24.71	66.856	
3,700.00	3,675.96	3,546.83	3,521.76	13.42	12.85	-157.25	11.55	1,443.72	1,680.61	1,655.14	25.46	66.003	
3,800.00	3,773.77	3,642.08	3,614.93	13.86	13.27	-156.91	-5.31	1,454.11	1,709.40	1,683.18	26.22	65.189	
3,900.00	3,871.59	3,737.33	3,708.10	14.30	13.69	-156.57	-22.17	1,464.51	1,738.25	1,711.26	26.99	64.411	
4,000.00	3,969.40	3,832.58	3,801.27	14.75	14.12	-156.24	-39.02	1,474.90	1,767.15	1,739.39	27.76	63.667	
4,100.00	4,067.22	3,927.84	3,894.44	15.19	14.54	-155.93	-55.88	1,485.29	1,796.10	1,767.57	28.53	62.956	
4,200.00	4,165.03	4,023.09	3,987.61	15.64	14.97	-155.62	-72.74	1,495.68	1,825.10	1,795.80	29.31	62.276	
4,300.00	4,262.84	4,118.34	4,080.78	16.10	15.41	-155.33	-89.60	1,506.08	1,854.15	1,824.06	30.09	61.626	
4,400.00	4,360.66	4,237.23	4,197.26	16.55	15.94	-154.99	-109.89	1,518.59	1,882.94	1,851.94	31.01	60.727	
4,500.00	4,458.47	4,381.58	4,339.76	17.01	16.56	-154.77	-129.37	1,530.60	1,909.65	1,877.61	32.04	59.598	
4,529.32	4,487.15	4,424.37	4,382.21	17.14	16.73	-154.74	-133.97	1,533.43	1,917.01	1,884.68	32.34	59.280	
4,600.00	4,556.46	4,528.51	4,485.81	17.46	17.13	-154.87	-142.90	1,538.94	1,933.12	1,900.08	33.04	58.514	
4,700.00	4,655.06	4,677.95	4,634.99	17.90	17.67	-155.12	-150.11	1,543.38	1,951.07	1,917.09	33.98	57.416	
4,800.00	4,754.18	4,807.15	4,764.18	18.31	18.09	-155.41	-151.25	1,544.09	1,963.53	1,928.74	34.79	56.441	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 306H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	4,906.67	4,863.70	18.69	18.40	-155.60	-151.25	1,544.09	1,972.39	1,936.92	35.47	55.606	
5,000.00	4,953.50	5,006.47	4,963.50	19.05	18.72	-155.72	-151.25	1,544.09	1,978.09	1,941.95	36.15	54.723	
5,100.00	5,053.46	5,106.42	5,063.46	19.39	19.04	-155.78	-151.25	1,544.09	1,980.62	1,943.80	36.82	53.795	
5,129.32	5,082.78	5,135.74	5,092.78	19.49	19.13	88.23	-151.25	1,544.09	1,980.75	1,943.74	37.01	53.516	
5,200.00	5,153.46	5,206.42	5,163.46	19.71	19.36	88.23	-151.25	1,544.09	1,980.75	1,943.27	37.48	52.849	
5,300.00	5,253.46	5,306.42	5,263.46	20.04	19.68	88.23	-151.25	1,544.09	1,980.75	1,942.61	38.14	51.931	
5,400.00	5,353.46	5,406.42	5,363.46	20.36	20.00	88.23	-151.25	1,544.09	1,980.75	1,941.95	38.81	51.042	
5,500.00	5,453.46	5,506.42	5,463.46	20.68	20.33	88.23	-151.25	1,544.09	1,980.75	1,941.28	39.47	50.180	
5,600.00	5,553.46	5,606.42	5,563.46	21.00	20.65	88.23	-151.25	1,544.09	1,980.75	1,940.61	40.14	49.345	
5,700.00	5,653.46	5,706.42	5,663.46	21.33	20.98	88.23	-151.25	1,544.09	1,980.75	1,939.94	40.81	48.535	
5,800.00	5,753.46	5,806.42	5,763.46	21.65	21.31	88.23	-151.25	1,544.09	1,980.75	1,939.27	41.48	47.750	
5,900.00	5,853.46	5,906.42	5,863.46	21.98	21.64	88.23	-151.25	1,544.09	1,980.75	1,938.60	42.15	46.988	
6,000.00	5,953.46	6,006.42	5,963.46	22.31	21.96	88.23	-151.25	1,544.09	1,980.75	1,937.92	42.83	46.248	
6,100.00	6,053.46	6,106.42	6,063.46	22.64	22.29	88.23	-151.25	1,544.09	1,980.75	1,937.25	43.50	45.530	
6,200.00	6,153.46	6,206.42	6,163.46	22.97	22.63	88.23	-151.25	1,544.09	1,980.75	1,936.57	44.18	44.832	
6,300.00	6,253.46	6,306.42	6,263.46	23.30	22.96	88.23	-151.25	1,544.09	1,980.75	1,935.89	44.86	44.154	
6,400.00	6,353.46	6,406.42	6,363.46	23.63	23.29	88.23	-151.25	1,544.09	1,980.75	1,935.21	45.54	43.496	
6,500.00	6,453.46	6,506.42	6,463.46	23.96	23.62	88.23	-151.25	1,544.09	1,980.75	1,934.53	46.22	42.855	
6,600.00	6,553.46	6,606.42	6,563.46	24.30	23.96	88.23	-151.25	1,544.09	1,980.75	1,933.85	46.90	42.233	
6,700.00	6,653.46	6,706.42	6,663.46	24.63	24.29	88.23	-151.25	1,544.09	1,980.75	1,933.17	47.58	41.627	
6,800.00	6,753.46	6,806.42	6,763.46	24.96	24.63	88.23	-151.25	1,544.09	1,980.75	1,932.49	48.27	41.037	
6,900.00	6,853.46	6,906.42	6,863.46	25.30	24.96	88.23	-151.25	1,544.09	1,980.75	1,931.80	48.95	40.463	
7,000.00	6,953.46	7,006.42	6,963.46	25.64	25.30	88.23	-151.25	1,544.09	1,980.75	1,931.12	49.64	39.905	
7,100.00	7,053.46	7,106.42	7,063.46	25.97	25.64	88.23	-151.25	1,544.09	1,980.75	1,930.43	50.32	39.360	
7,200.00	7,153.46	7,206.42	7,163.46	26.31	25.97	88.23	-151.25	1,544.09	1,980.75	1,929.74	51.01	38.830	
7,300.00	7,253.46	7,306.42	7,263.46	26.65	26.31	88.23	-151.25	1,544.09	1,980.75	1,929.05	51.70	38.313	
7,400.00	7,353.46	7,406.42	7,363.46	26.98	26.65	88.23	-151.25	1,544.09	1,980.75	1,928.37	52.39	37.810	
7,500.00	7,453.46	7,506.42	7,463.46	27.32	26.99	88.23	-151.25	1,544.09	1,980.75	1,927.68	53.08	37.319	
7,600.00	7,553.46	7,606.42	7,563.46	27.66	27.33	88.23	-151.25	1,544.09	1,980.75	1,926.99	53.77	36.840	
7,700.00	7,653.46	7,706.42	7,663.46	28.00	27.67	88.23	-151.25	1,544.09	1,980.75	1,926.30	54.46	36.372	
7,800.00	7,753.46	7,806.42	7,763.46	28.34	28.01	88.23	-151.25	1,544.09	1,980.75	1,925.60	55.15	35.916	
7,900.00	7,853.46	7,906.42	7,863.46	28.68	28.35	88.23	-151.25	1,544.09	1,980.75	1,924.91	55.84	35.471	
8,000.00	7,953.46	8,006.42	7,963.46	29.02	28.70	88.23	-151.25	1,544.09	1,980.75	1,924.22	56.53	35.036	
8,100.00	8,053.46	8,106.42	8,063.46	29.36	29.04	88.23	-151.25	1,544.09	1,980.75	1,923.53	57.23	34.612	
8,200.00	8,153.46	8,206.42	8,163.46	29.71	29.38	88.23	-151.25	1,544.09	1,980.75	1,922.83	57.92	34.197	
8,300.00	8,253.46	8,306.42	8,263.46	30.05	29.72	88.23	-151.25	1,544.09	1,980.75	1,922.14	58.62	33.792	
8,302.90	8,256.36	8,309.33	8,266.36	30.06	29.73	88.23	-151.25	1,544.09	1,980.75	1,922.12	58.64	33.780	
8,400.00	8,353.46	8,404.13	8,361.15	30.39	30.06	88.21	-150.61	1,544.08	1,980.77	1,921.47	59.30	33.402	
8,500.00	8,453.46	8,494.72	8,450.93	30.73	30.34	87.88	-139.20	1,544.01	1,981.12	1,921.20	59.93	33.059	
8,600.00	8,553.46	8,579.76	8,532.59	31.08	30.56	87.20	-115.75	1,543.85	1,982.17	1,921.68	60.49	32.767	
8,700.00	8,653.46	8,656.44	8,602.53	31.42	30.74	86.30	-84.45	1,543.64	1,984.43	1,923.44	60.99	32.536	
8,800.00	8,753.46	8,723.64	8,659.91	31.76	30.86	85.30	-49.56	1,543.41	1,988.52	1,927.10	61.42	32.375	
8,900.00	8,853.46	8,781.48	8,705.75	32.11	30.96	84.28	-14.32	1,543.18	1,995.04	1,933.26	61.78	32.294	
9,000.00	8,953.46	8,830.86	8,741.90	32.45	31.03	83.32	19.29	1,542.96	2,004.48	1,942.44	62.04	32.308	
9,100.00	9,053.46	8,872.90	8,770.30	32.80	31.08	82.44	50.28	1,542.75	2,017.25	1,955.03	62.22	32.420	
9,200.00	9,153.46	8,900.00	8,787.37	33.14	31.12	81.84	71.32	1,542.61	2,033.66	1,971.38	62.27	32.658	
9,300.00	9,253.46	8,950.00	8,816.19	33.49	31.17	80.68	112.16	1,542.34	2,053.81	1,991.46	62.35	32.939	
9,400.00	9,353.46	8,965.99	8,824.64	33.83	31.19	80.30	125.74	1,542.25	2,077.75	2,015.54	62.21	33.397	
9,500.00	9,453.46	9,000.00	8,841.33	34.18	31.23	79.47	155.36	1,542.05	2,105.69	2,043.59	62.09	33.913	
9,600.00	9,553.46	9,000.00	8,841.33	34.53	31.23	79.47	155.36	1,542.05	2,137.37	2,075.63	61.73	34.622	
9,700.00	9,653.46	9,026.62	8,853.15	34.87	31.26	78.80	179.21	1,541.90	2,172.77	2,111.31	61.47	35.349	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 306H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,753.46	9,050.00	8,862.61	35.22	31.29	78.20	200.59	1,541.75	2,211.90	2,150.77	61.13	36.181	
9,900.00	9,853.46	9,050.00	8,862.61	35.57	31.29	78.20	200.59	1,541.75	2,254.48	2,193.84	60.64	37.178	
9,955.59	9,909.05	9,050.00	8,862.61	35.76	31.29	78.20	200.59	1,541.75	2,279.71	2,219.35	60.35	37.773	
10,000.00	9,953.41	9,068.90	8,869.62	35.91	31.31	75.85	218.14	1,541.64	2,300.06	2,239.84	60.22	38.192	
10,050.00	10,003.03	9,076.36	8,872.22	36.08	31.32	73.19	225.13	1,541.59	2,322.96	2,262.97	59.99	38.723	
10,100.00	10,051.93	9,100.00	8,879.87	36.23	31.35	70.28	247.50	1,541.44	2,345.66	2,285.83	59.84	39.202	
10,150.00	10,099.75	9,100.00	8,879.87	36.38	31.35	68.00	247.50	1,541.44	2,367.53	2,307.98	59.55	39.756	
10,200.00	10,146.11	9,100.00	8,879.87	36.52	31.35	65.84	247.50	1,541.44	2,388.78	2,329.51	59.27	40.304	
10,250.00	10,190.67	9,100.00	8,879.87	36.64	31.35	63.81	247.50	1,541.44	2,409.27	2,350.28	58.99	40.843	
10,300.00	10,233.09	9,124.47	8,886.81	36.75	31.39	61.57	270.96	1,541.29	2,428.44	2,369.60	58.85	41.267	
10,350.00	10,273.04	9,150.00	8,892.98	36.85	31.43	59.54	295.73	1,541.12	2,446.68	2,387.97	58.71	41.671	
10,400.00	10,310.22	9,150.00	8,892.98	36.94	31.43	58.03	295.73	1,541.12	2,463.28	2,404.81	58.47	42.128	
10,450.00	10,344.35	9,150.00	8,892.98	37.01	31.43	56.68	295.73	1,541.12	2,478.60	2,420.35	58.25	42.550	
10,500.00	10,375.16	9,171.71	8,897.35	37.07	31.47	55.30	316.99	1,540.98	2,492.21	2,434.06	58.15	42.855	
10,550.00	10,402.43	9,200.00	8,901.83	37.11	31.52	54.08	344.92	1,540.80	2,504.38	2,446.28	58.10	43.101	
10,600.00	10,425.94	9,200.00	8,901.83	37.15	31.52	53.26	344.92	1,540.80	2,514.42	2,456.45	57.97	43.376	
10,650.00	10,445.52	9,200.00	8,901.83	37.19	31.52	52.58	344.92	1,540.80	2,522.85	2,464.98	57.87	43.596	
10,700.00	10,461.01	9,223.07	8,904.46	37.23	31.57	51.97	367.84	1,540.64	2,529.23	2,471.34	57.89	43.687	
10,750.00	10,472.31	9,250.00	8,906.36	37.30	31.63	51.55	394.70	1,540.47	2,533.88	2,475.92	57.96	43.716	
10,800.00	10,479.31	9,250.00	8,906.36	37.41	31.63	51.36	394.70	1,540.47	2,536.27	2,478.28	57.99	43.739	
10,850.00	10,481.98	9,262.76	8,906.82	37.55	31.66	51.32	407.46	1,540.38	2,536.80	2,478.71	58.09	43.668	
10,858.49	10,482.00	9,265.02	8,906.87	37.57	31.66	51.33	409.71	1,540.37	2,536.69	2,478.58	58.11	43.650	
10,900.00	10,481.79	9,276.71	8,907.00	37.70	31.69	51.33	421.40	1,540.29	2,536.27	2,478.03	58.23	43.553	
11,000.00	10,481.28	9,374.18	8,907.05	38.06	31.97	51.34	518.87	1,539.64	2,535.92	2,477.14	58.78	43.143	
11,100.00	10,480.78	9,474.18	8,907.10	38.49	32.35	51.35	618.87	1,538.98	2,535.57	2,476.12	59.45	42.653	
11,200.00	10,480.27	9,574.18	8,907.15	38.98	32.81	51.36	718.87	1,538.32	2,535.22	2,474.99	60.23	42.089	
11,300.00	10,479.77	9,674.18	8,907.21	39.53	33.34	51.37	818.86	1,537.65	2,534.87	2,473.74	61.14	41.463	
11,400.00	10,479.26	9,774.18	8,907.26	40.14	33.94	51.38	918.86	1,536.99	2,534.52	2,472.38	62.15	40.782	
11,500.00	10,478.76	9,874.18	8,907.31	40.81	34.62	51.39	1,018.86	1,536.32	2,534.18	2,470.91	63.26	40.058	
11,600.00	10,478.25	9,974.18	8,907.36	41.54	35.36	51.40	1,118.86	1,535.66	2,533.83	2,469.35	64.48	39.298	
11,700.00	10,477.75	10,074.18	8,907.41	42.31	36.15	51.41	1,218.85	1,535.00	2,533.48	2,467.70	65.79	38.511	
11,800.00	10,477.24	10,174.18	8,907.47	43.14	37.01	51.42	1,318.85	1,534.33	2,533.13	2,465.95	67.18	37.706	
11,900.00	10,476.74	10,274.18	8,907.52	44.01	37.92	51.43	1,418.85	1,533.67	2,532.79	2,464.13	68.66	36.889	
12,000.00	10,476.23	10,374.18	8,907.57	44.92	38.87	51.44	1,518.85	1,533.00	2,532.44	2,462.22	70.22	36.067	
12,100.00	10,475.73	10,474.18	8,907.62	45.88	39.88	51.45	1,618.84	1,532.34	2,532.09	2,460.25	71.84	35.244	
12,200.00	10,475.22	10,574.18	8,907.67	46.87	40.92	51.46	1,718.84	1,531.68	2,531.75	2,458.21	73.54	34.427	
12,300.00	10,474.72	10,674.18	8,907.73	47.90	42.00	51.47	1,818.84	1,531.01	2,531.40	2,456.10	75.30	33.618	
12,400.00	10,474.22	10,774.18	8,907.78	48.97	43.12	51.48	1,918.83	1,530.35	2,531.05	2,453.94	77.11	32.822	
12,500.00	10,473.71	10,874.18	8,907.83	50.06	44.28	51.49	2,018.83	1,529.68	2,530.71	2,451.72	78.98	32.041	
12,600.00	10,473.21	10,974.18	8,907.88	51.19	45.46	51.50	2,118.83	1,529.02	2,530.36	2,449.46	80.90	31.276	
12,700.00	10,472.70	11,074.18	8,907.93	52.34	46.67	51.51	2,218.83	1,528.35	2,530.02	2,447.15	82.87	30.530	
12,800.00	10,472.20	11,174.18	8,907.98	53.52	47.91	51.52	2,318.82	1,527.69	2,529.67	2,444.79	84.88	29.802	
12,900.00	10,471.70	11,274.18	8,908.04	54.73	49.18	51.53	2,418.82	1,527.02	2,529.33	2,442.39	86.93	29.095	
13,000.00	10,471.19	11,374.18	8,908.09	55.96	50.46	51.54	2,518.82	1,526.36	2,528.98	2,439.96	89.02	28.409	
13,100.00	10,470.69	11,474.18	8,908.14	57.21	51.77	51.55	2,618.82	1,525.69	2,528.64	2,437.49	91.15	27.743	
13,200.00	10,470.19	11,574.18	8,908.19	58.48	53.10	51.56	2,718.81	1,525.03	2,528.29	2,434.99	93.30	27.098	
13,300.00	10,469.68	11,674.18	8,908.24	59.77	54.44	51.57	2,818.81	1,524.36	2,527.95	2,432.46	95.49	26.473	
13,400.00	10,469.18	11,774.18	8,908.29	61.07	55.81	51.58	2,918.81	1,523.70	2,527.60	2,429.90	97.71	25.870	
13,500.00	10,468.68	11,874.17	8,908.34	62.40	57.18	51.58	3,018.81	1,523.03	2,527.26	2,427.31	99.95	25.286	
13,600.00	10,468.18	11,974.17	8,908.39	63.73	58.57	51.59	3,118.80	1,522.36	2,526.91	2,424.70	102.21	24.722	
13,700.00	10,467.67	12,074.17	8,908.45	65.09	59.98	51.60	3,218.80	1,521.70	2,526.57	2,422.07	104.50	24.178	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 306H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	10,467.17	12,174.17	8,908.50	66.46	61.40	51.61	3,318.80	1,521.03	2,526.23	2,419.41	106.81	23.651	
13,900.00	10,466.67	12,274.17	8,908.55	67.83	62.83	51.62	3,418.80	1,520.37	2,525.88	2,416.74	109.14	23.143	
14,000.00	10,466.17	12,374.17	8,908.60	69.23	64.27	51.63	3,518.79	1,519.70	2,525.54	2,414.04	111.50	22.651	
14,100.00	10,465.67	12,474.17	8,908.65	70.63	65.72	51.64	3,618.79	1,519.03	2,525.20	2,411.33	113.87	22.177	
14,200.00	10,465.17	12,574.17	8,908.70	72.04	67.18	51.65	3,718.79	1,518.37	2,524.85	2,408.60	116.25	21.719	
14,300.00	10,464.66	12,674.17	8,908.75	73.47	68.65	51.66	3,818.79	1,517.70	2,524.51	2,405.86	118.65	21.277	
14,400.00	10,464.16	12,774.17	8,908.80	74.90	70.12	51.67	3,918.78	1,517.04	2,524.17	2,403.10	121.06	20.850	
14,500.00	10,463.66	12,874.17	8,908.85	76.34	71.61	51.68	4,018.78	1,516.37	2,523.83	2,400.33	123.49	20.437	
14,600.00	10,463.16	12,974.17	8,908.90	77.80	73.10	51.69	4,118.78	1,515.70	2,523.48	2,397.55	125.93	20.038	
14,700.00	10,462.66	13,074.17	8,908.95	79.26	74.60	51.70	4,218.78	1,515.04	2,523.14	2,394.75	128.39	19.653	
14,800.00	10,462.16	13,174.17	8,909.01	80.72	76.11	51.71	4,318.77	1,514.37	2,522.80	2,391.95	130.85	19.280	
14,900.00	10,461.66	13,274.17	8,909.06	82.20	77.62	51.72	4,418.77	1,513.70	2,522.46	2,389.13	133.33	18.919	
15,000.00	10,461.16	13,374.17	8,909.11	83.68	79.14	51.73	4,518.77	1,513.03	2,522.12	2,386.30	135.81	18.570	
15,100.00	10,460.66	13,474.17	8,909.16	85.16	80.66	51.74	4,618.77	1,512.37	2,521.78	2,383.47	138.31	18.233	
15,200.00	10,460.16	13,574.17	8,909.21	86.66	82.19	51.75	4,718.76	1,511.70	2,521.43	2,380.62	140.81	17.907	
15,300.00	10,459.66	13,674.17	8,909.26	88.16	83.72	51.76	4,818.76	1,511.03	2,521.09	2,377.77	143.32	17.590	
15,400.00	10,459.16	13,774.17	8,909.31	89.66	85.26	51.77	4,918.76	1,510.37	2,520.75	2,374.91	145.84	17.284	
15,500.00	10,458.66	13,874.17	8,909.36	91.17	86.80	51.78	5,018.75	1,509.70	2,520.41	2,372.04	148.37	16.987	
15,600.00	10,458.16	13,974.17	8,909.41	92.69	88.35	51.79	5,118.75	1,509.03	2,520.07	2,369.16	150.91	16.699	
15,700.00	10,457.66	14,074.17	8,909.46	94.21	89.90	51.80	5,218.75	1,508.36	2,519.73	2,366.28	153.45	16.420	
15,800.00	10,457.16	14,174.17	8,909.51	95.73	91.45	51.81	5,318.75	1,507.70	2,519.39	2,363.39	156.00	16.150	
15,900.00	10,456.66	14,274.17	8,909.56	97.26	93.01	51.82	5,418.74	1,507.03	2,519.05	2,360.50	158.55	15.888	
16,000.00	10,456.16	14,374.17	8,909.61	98.79	94.57	51.83	5,518.74	1,506.36	2,518.71	2,357.60	161.12	15.633	
16,100.00	10,455.66	14,474.17	8,909.66	100.33	96.13	51.84	5,618.74	1,505.69	2,518.37	2,354.69	163.68	15.386	
16,200.00	10,455.16	14,574.17	8,909.71	101.87	97.70	51.85	5,718.74	1,505.02	2,518.03	2,351.78	166.25	15.146	
16,300.00	10,454.67	14,674.17	8,909.76	103.41	99.27	51.86	5,818.73	1,504.35	2,517.70	2,348.86	168.83	14.912	
16,400.00	10,454.17	14,774.16	8,909.81	104.96	100.84	51.87	5,918.73	1,503.69	2,517.36	2,345.94	171.42	14.686	
16,500.00	10,453.67	14,874.16	8,909.86	106.51	102.42	51.88	6,018.73	1,503.02	2,517.02	2,343.02	174.00	14.465	
16,600.00	10,453.17	14,974.16	8,909.91	108.07	104.00	51.89	6,118.73	1,502.35	2,516.68	2,340.09	176.59	14.252	
16,700.00	10,452.67	15,074.16	8,909.96	109.62	105.58	51.90	6,218.72	1,501.68	2,516.34	2,337.16	179.18	14.043	
16,800.00	10,452.17	15,174.16	8,910.01	111.18	107.16	51.91	6,318.72	1,501.01	2,516.00	2,334.22	181.78	13.841	
16,900.00	10,451.68	15,274.16	8,910.06	112.74	108.74	51.92	6,418.72	1,500.34	2,515.66	2,331.28	184.38	13.644	
17,000.00	10,451.18	15,374.16	8,910.11	114.31	110.33	51.93	6,518.72	1,499.67	2,515.33	2,328.34	186.99	13.452	
17,100.00	10,450.68	15,474.16	8,910.16	115.88	111.92	51.94	6,618.71	1,499.01	2,514.99	2,325.39	189.60	13.264	
17,200.00	10,450.18	15,574.16	8,910.21	117.45	113.51	51.95	6,718.71	1,498.34	2,514.65	2,322.44	192.21	13.083	
17,300.00	10,449.69	15,674.16	8,910.26	119.02	115.10	51.96	6,818.71	1,497.67	2,514.31	2,319.49	194.83	12.905	
17,400.00	10,449.19	15,774.16	8,910.31	120.60	116.70	51.97	6,918.71	1,497.00	2,513.98	2,316.53	197.45	12.732	
17,500.00	10,448.69	15,874.16	8,910.36	122.17	118.29	51.98	7,018.70	1,496.33	2,513.64	2,313.57	200.07	12.564	
17,600.00	10,448.20	15,974.16	8,910.41	123.75	119.89	51.99	7,118.70	1,495.66	2,513.30	2,310.61	202.69	12.400	
17,700.00	10,447.70	16,074.16	8,910.46	125.33	121.49	52.00	7,218.70	1,494.99	2,512.97	2,307.65	205.32	12.239	
17,800.00	10,447.20	16,174.16	8,910.51	126.91	123.09	52.01	7,318.70	1,494.32	2,512.63	2,304.68	207.95	12.083	
17,900.00	10,446.71	16,274.16	8,910.55	128.50	124.69	52.02	7,418.69	1,493.65	2,512.30	2,301.72	210.58	11.930	
18,000.00	10,446.21	16,374.16	8,910.60	130.09	126.30	52.03	7,518.69	1,492.98	2,511.96	2,298.75	213.21	11.782	
18,100.00	10,445.71	16,474.16	8,910.65	131.67	127.90	52.04	7,618.69	1,492.31	2,511.62	2,295.78	215.84	11.636	
18,200.00	10,445.22	16,574.16	8,910.70	133.26	129.51	52.05	7,718.69	1,491.64	2,511.29	2,292.81	218.48	11.494	
18,300.00	10,444.72	16,674.16	8,910.75	134.86	131.12	52.06	7,818.68	1,490.97	2,510.95	2,289.83	221.12	11.356	
18,400.00	10,444.23	16,774.16	8,910.80	136.45	132.72	52.07	7,918.68	1,490.30	2,510.62	2,286.86	223.76	11.220	
18,500.00	10,443.73	16,874.16	8,910.85	138.04	134.33	52.08	8,018.68	1,489.63	2,510.28	2,283.87	226.41	11.087	
18,600.00	10,443.24	16,974.16	8,910.90	139.64	135.95	52.09	8,118.68	1,488.96	2,509.95	2,280.90	229.05	10.958	
18,700.00	10,442.74	17,074.16	8,910.95	141.24	137.56	52.10	8,218.67	1,488.29	2,509.61	2,277.92	231.70	10.832	
18,800.00	10,442.25	17,174.16	8,911.00	142.84	139.17	52.11	8,318.67	1,487.62	2,509.28	2,274.94	234.34	10.708	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 306H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	10,441.75	17,274.16	8,911.05	144.44	140.79	52.11	8,418.67	1,486.95	2,508.94	2,271.95	236.99	10.587	
19,000.00	10,441.26	17,374.16	8,911.09	146.04	142.40	52.12	8,518.67	1,486.28	2,508.61	2,268.97	239.64	10.468	
19,100.00	10,440.76	17,474.16	8,911.14	147.64	144.02	52.13	8,618.66	1,485.61	2,508.28	2,265.98	242.29	10.352	
19,200.00	10,440.27	17,574.16	8,911.19	149.24	145.63	52.14	8,718.66	1,484.93	2,507.94	2,262.99	244.95	10.239	
19,300.00	10,439.77	17,674.16	8,911.24	150.85	147.25	52.15	8,818.66	1,484.26	2,507.61	2,260.01	247.60	10.128	
19,400.00	10,439.28	17,774.16	8,911.29	152.45	148.87	52.16	8,918.65	1,483.59	2,507.28	2,257.02	250.26	10.019	
19,500.00	10,438.78	17,874.16	8,911.34	154.06	150.49	52.17	9,018.65	1,482.92	2,506.94	2,254.03	252.91	9.912	
19,600.00	10,438.29	17,974.16	8,911.39	155.67	152.11	52.18	9,118.65	1,482.25	2,506.61	2,251.04	255.57	9.808	
19,700.00	10,437.80	18,074.16	8,911.44	157.28	153.73	52.19	9,218.65	1,481.58	2,506.28	2,248.05	258.23	9.706	
19,800.00	10,437.30	18,174.15	8,911.48	158.89	155.35	52.20	9,318.64	1,480.91	2,505.94	2,245.05	260.89	9.605	
19,900.00	10,436.81	18,274.15	8,911.53	160.50	156.98	52.21	9,418.64	1,480.24	2,505.61	2,242.06	263.55	9.507	
20,000.00	10,436.32	18,374.15	8,911.58	162.11	158.60	52.22	9,518.64	1,479.56	2,505.28	2,239.07	266.21	9.411	
20,100.00	10,435.82	18,474.15	8,911.63	163.72	160.22	52.23	9,618.64	1,478.89	2,504.95	2,236.07	268.87	9.316	
20,200.00	10,435.33	18,574.15	8,911.68	165.34	161.85	52.24	9,718.63	1,478.22	2,504.62	2,233.08	271.54	9.224	
20,300.00	10,434.84	18,674.15	8,911.73	166.95	163.47	52.25	9,818.63	1,477.55	2,504.28	2,230.08	274.20	9.133	
20,400.00	10,434.34	18,774.15	8,911.77	168.57	165.10	52.26	9,918.63	1,476.88	2,503.95	2,227.09	276.86	9.044	
20,500.00	10,433.85	18,874.15	8,911.82	170.18	166.72	52.27	10,018.63	1,476.20	2,503.62	2,224.09	279.53	8.957	
20,600.00	10,433.36	18,974.15	8,911.87	171.80	168.35	52.28	10,118.62	1,475.53	2,503.29	2,221.09	282.20	8.871	
20,700.00	10,432.86	19,074.15	8,911.92	173.42	169.98	52.29	10,218.62	1,474.86	2,502.96	2,218.10	284.86	8.787	
20,800.00	10,432.37	19,174.15	8,911.97	175.04	171.61	52.30	10,318.62	1,474.19	2,502.63	2,215.10	287.53	8.704	
20,875.64	10,432.00	19,244.74	8,912.00	176.26	172.76	52.31	10,389.21	1,473.71	2,502.38	2,212.91	289.48	8.644	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 401H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	5.39	250.21	23.60	251.32				
100.00	100.00	100.00	100.00	0.14	0.14	5.39	250.21	23.60	251.32	251.05	0.27	928.597	
200.00	200.00	200.00	200.00	0.49	0.49	5.39	250.21	23.60	251.32	250.33	0.99	254.480	
300.00	300.00	300.00	300.00	0.85	0.85	5.39	250.21	23.60	251.32	249.62	1.70	147.443	
400.00	400.00	400.00	400.00	1.21	1.21	5.39	250.21	23.60	251.32	248.90	2.42	103.789	
500.00	500.00	500.00	500.00	1.57	1.57	5.39	250.21	23.60	251.32	248.18	3.14	80.079	
600.00	600.00	600.00	600.00	1.93	1.93	5.39	250.21	23.60	251.32	247.47	3.86	65.188	
700.00	700.00	700.00	700.00	2.29	2.29	5.39	250.21	23.60	251.32	246.75	4.57	54.966	
800.00	800.00	800.00	800.00	2.64	2.64	5.39	250.21	23.60	251.32	246.03	5.29	47.516	
900.00	900.00	900.00	900.00	3.00	3.00	5.39	250.21	23.60	251.32	245.32	6.01	41.844	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	5.39	250.21	23.60	251.32	244.60	6.72	37.382	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	5.39	250.21	23.60	251.32	243.88	7.44	33.779	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	5.39	250.21	23.60	251.32	243.16	8.16	30.810	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	5.39	250.21	23.60	251.32	242.45	8.87	28.321	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	5.39	250.21	23.60	251.32	241.73	9.59	26.204	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	5.39	250.21	23.60	251.32	241.01	10.31	24.382	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	5.39	250.21	23.60	251.32	240.30	11.02	22.796	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	5.39	250.21	23.60	251.32	239.58	11.74	21.404	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	5.39	250.21	23.60	251.32	238.86	12.46	20.172	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	5.39	250.21	23.60	251.32	238.15	13.18	19.075	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	5.39	250.21	23.60	251.32	237.43	13.89	18.090	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	5.39	250.21	23.60	251.32	236.71	14.61	17.203	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	5.39	250.21	23.60	251.32	236.00	15.33	16.398	CC, ES
2,300.00	2,299.98	2,299.98	2,299.98	8.01	8.02	121.70	250.21	23.60	252.23	236.20	16.03	15.735	
2,400.00	2,399.84	2,399.84	2,399.84	8.34	8.38	122.66	250.21	23.60	255.02	238.30	16.72	15.249	
2,500.00	2,499.45	2,499.45	2,499.45	8.68	8.74	124.19	250.21	23.60	259.84	242.42	17.42	14.916	
2,600.00	2,598.70	2,598.70	2,598.70	9.03	9.09	126.23	250.21	23.60	266.90	248.78	18.12	14.731	
2,700.00	2,697.47	2,706.84	2,706.82	9.38	9.46	129.11	248.25	23.98	274.83	256.01	18.83	14.599	
2,800.00	2,795.62	2,814.56	2,814.36	9.75	9.81	132.74	242.32	25.11	282.39	262.89	19.50	14.480	
2,900.00	2,893.44	2,921.75	2,921.08	10.13	10.16	136.91	232.48	26.99	289.03	268.86	20.17	14.331	
3,000.00	2,991.25	3,028.50	3,026.90	10.51	10.51	141.28	218.79	29.61	293.94	273.11	20.83	14.111	
3,100.00	3,089.07	3,134.50	3,131.40	10.91	10.87	145.93	201.38	32.95	297.51	276.02	21.49	13.843	
3,200.00	3,186.88	3,236.53	3,231.35	11.31	11.23	150.73	181.27	36.80	300.40	278.22	22.18	13.545	
3,300.00	3,284.70	3,333.34	3,326.05	11.72	11.58	155.26	161.50	40.58	304.81	281.91	22.90	13.311	
3,400.00	3,382.51	3,430.14	3,420.74	12.14	11.94	159.64	141.73	44.37	311.18	287.55	23.63	13.171	
3,500.00	3,480.33	3,526.95	3,515.43	12.56	12.31	163.84	121.96	48.15	319.40	295.04	24.36	13.113	
3,600.00	3,578.14	3,623.76	3,610.12	12.99	12.68	167.82	102.19	51.94	329.32	304.23	25.09	13.123	
3,700.00	3,675.96	3,720.57	3,704.81	13.42	13.06	171.56	82.42	55.72	340.80	314.96	25.84	13.189	
3,800.00	3,773.77	3,817.37	3,799.51	13.86	13.45	175.05	62.65	59.50	353.69	327.10	26.59	13.301	
3,900.00	3,871.59	3,914.18	3,894.20	14.30	13.84	178.30	42.89	63.29	367.84	340.49	27.35	13.449	
4,000.00	3,969.40	4,010.99	3,988.89	14.75	14.24	-178.70	23.12	67.07	383.11	354.99	28.12	13.625	
4,100.00	4,067.22	4,107.80	4,083.58	15.19	14.65	-175.92	3.35	70.86	399.37	370.48	28.89	13.823	
4,200.00	4,165.03	4,204.60	4,178.27	15.64	15.05	-173.35	-16.42	74.64	416.50	386.83	29.67	14.037	
4,300.00	4,262.84	4,301.41	4,272.97	16.10	15.46	-170.99	-36.19	78.42	434.40	403.94	30.46	14.261	
4,400.00	4,360.66	4,398.22	4,367.66	16.55	15.88	-168.81	-55.96	82.21	452.99	421.73	31.25	14.494	
4,500.00	4,458.47	4,495.03	4,462.35	17.01	16.30	-166.80	-75.72	85.99	472.17	440.12	32.05	14.730	
4,529.32	4,487.15	4,523.41	4,490.11	17.14	16.42	-166.24	-81.52	87.10	477.90	445.61	32.29	14.800	
4,600.00	4,556.46	4,591.96	4,557.16	17.46	16.72	-164.99	-95.52	89.78	491.06	458.20	32.86	14.944	
4,700.00	4,655.06	4,689.31	4,652.38	17.90	17.15	-163.23	-115.40	93.59	507.28	473.62	33.67	15.067	
4,800.00	4,754.18	4,786.98	4,747.92	18.31	17.58	-161.46	-135.34	97.40	520.73	486.25	34.48	15.102	
4,900.00	4,853.70	4,885.53	4,844.38	18.69	18.01	-159.67	-155.19	101.20	531.43	496.14	35.29	15.058	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 401H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	4,986.01	4,943.27	19.05	18.44	-158.07	-172.65	104.55	539.12	503.02	36.10	14.934	
5,100.00	5,053.46	5,087.58	5,043.80	19.39	18.86	-156.70	-186.82	107.26	543.53	506.64	36.89	14.735	
5,129.32	5,082.78	5,117.52	5,073.53	19.49	18.98	87.67	-190.33	107.93	544.18	507.07	37.11	14.663	
5,200.00	5,153.46	5,189.98	5,145.61	19.71	19.26	88.44	-197.56	109.31	545.29	507.65	37.65	14.484	
5,300.00	5,253.46	5,293.03	5,248.40	20.04	19.64	89.19	-204.75	110.69	546.49	508.11	38.38	14.238	
5,400.00	5,353.46	5,396.48	5,351.78	20.36	20.00	89.57	-208.31	111.37	547.11	508.02	39.09	13.995	
5,500.00	5,453.46	5,498.16	5,453.46	20.68	20.33	89.61	-208.72	111.45	547.18	507.42	39.77	13.760	
5,600.00	5,553.46	5,598.16	5,553.46	21.00	20.65	89.61	-208.72	111.45	547.18	506.76	40.43	13.535	
5,700.00	5,653.46	5,698.16	5,653.46	21.33	20.97	89.61	-208.72	111.45	547.18	506.09	41.09	13.317	
5,800.00	5,753.46	5,798.16	5,753.46	21.65	21.29	89.61	-208.72	111.45	547.18	505.43	41.75	13.105	
5,900.00	5,853.46	5,898.16	5,853.46	21.98	21.62	89.61	-208.72	111.45	547.18	504.76	42.42	12.899	
6,000.00	5,953.46	5,998.16	5,953.46	22.31	21.94	89.61	-208.72	111.45	547.18	504.10	43.09	12.699	
6,100.00	6,053.46	6,098.16	6,053.46	22.64	22.27	89.61	-208.72	111.45	547.18	503.43	43.76	12.505	
6,200.00	6,153.46	6,198.16	6,153.46	22.97	22.60	89.61	-208.72	111.45	547.18	502.76	44.43	12.316	
6,300.00	6,253.46	6,298.16	6,253.46	23.30	22.93	89.61	-208.72	111.45	547.18	502.08	45.10	12.133	
6,400.00	6,353.46	6,398.16	6,353.46	23.63	23.26	89.61	-208.72	111.45	547.18	501.41	45.77	11.954	
6,500.00	6,453.46	6,498.16	6,453.46	23.96	23.59	89.61	-208.72	111.45	547.18	500.73	46.45	11.780	
6,600.00	6,553.46	6,598.16	6,553.46	24.30	23.92	89.61	-208.72	111.45	547.18	500.06	47.13	11.611	
6,700.00	6,653.46	6,698.16	6,653.46	24.63	24.25	89.61	-208.72	111.45	547.18	499.38	47.80	11.447	
6,800.00	6,753.46	6,798.16	6,753.46	24.96	24.58	89.61	-208.72	111.45	547.18	498.70	48.48	11.287	
6,900.00	6,853.46	6,898.16	6,853.46	25.30	24.92	89.61	-208.72	111.45	547.18	498.02	49.16	11.131	
7,000.00	6,953.46	6,998.16	6,953.46	25.64	25.25	89.61	-208.72	111.45	547.18	497.34	49.84	10.979	
7,100.00	7,053.46	7,098.16	7,053.46	25.97	25.59	89.61	-208.72	111.45	547.18	496.66	50.52	10.830	
7,200.00	7,153.46	7,198.16	7,153.46	26.31	25.92	89.61	-208.72	111.45	547.18	495.98	51.21	10.686	
7,300.00	7,253.46	7,298.16	7,253.46	26.65	26.26	89.61	-208.72	111.45	547.18	495.30	51.89	10.545	
7,400.00	7,353.46	7,398.16	7,353.46	26.98	26.59	89.61	-208.72	111.45	547.18	494.61	52.57	10.408	
7,500.00	7,453.46	7,498.16	7,453.46	27.32	26.93	89.61	-208.72	111.45	547.18	493.93	53.26	10.274	
7,600.00	7,553.46	7,598.16	7,553.46	27.66	27.27	89.61	-208.72	111.45	547.18	493.24	53.94	10.144	
7,700.00	7,653.46	7,698.16	7,653.46	28.00	27.61	89.61	-208.72	111.45	547.18	492.55	54.63	10.016	
7,800.00	7,753.46	7,798.16	7,753.46	28.34	27.95	89.61	-208.72	111.45	547.18	491.87	55.32	9.891	
7,900.00	7,853.46	7,898.16	7,853.46	28.68	28.29	89.61	-208.72	111.45	547.18	491.18	56.01	9.770	
8,000.00	7,953.46	7,998.16	7,953.46	29.02	28.63	89.61	-208.72	111.45	547.18	490.49	56.70	9.651	
8,100.00	8,053.46	8,098.16	8,053.46	29.36	28.97	89.61	-208.72	111.45	547.18	489.80	57.39	9.535	
8,200.00	8,153.46	8,198.16	8,153.46	29.71	29.31	89.61	-208.72	111.45	547.18	489.11	58.08	9.422	
8,300.00	8,253.46	8,298.16	8,253.46	30.05	29.65	89.61	-208.72	111.45	547.18	488.42	58.77	9.311	
8,400.00	8,353.46	8,398.16	8,353.46	30.39	29.99	89.61	-208.72	111.45	547.18	487.73	59.46	9.203	
8,500.00	8,453.46	8,498.16	8,453.46	30.73	30.33	89.61	-208.72	111.45	547.18	487.03	60.15	9.097	
8,600.00	8,553.46	8,598.16	8,553.46	31.08	30.67	89.61	-208.72	111.45	547.18	486.34	60.84	8.993	
8,700.00	8,653.46	8,698.16	8,653.46	31.42	31.02	89.61	-208.72	111.45	547.18	485.65	61.54	8.892	
8,800.00	8,753.46	8,798.16	8,753.46	31.76	31.36	89.61	-208.72	111.45	547.18	484.95	62.23	8.793	
8,900.00	8,853.46	8,898.16	8,853.46	32.11	31.70	89.61	-208.72	111.45	547.18	484.26	62.93	8.696	
9,000.00	8,953.46	8,998.16	8,953.46	32.45	32.05	89.61	-208.72	111.45	547.18	483.56	63.62	8.601	
9,100.00	9,053.46	9,085.71	9,040.67	32.80	32.33	88.93	-202.19	112.33	548.30	484.09	64.21	8.540	
9,200.00	9,153.46	9,169.32	9,122.10	33.14	32.56	87.02	-183.75	114.83	552.18	487.52	64.66	8.539	
9,300.00	9,253.46	9,250.00	9,197.32	33.49	32.75	84.09	-155.00	118.71	560.22	495.27	64.95	8.626	
9,400.00	9,353.46	9,314.47	9,254.03	33.83	32.88	81.07	-124.68	122.81	574.06	509.29	64.77	8.862	
9,500.00	9,453.46	9,374.14	9,303.15	34.18	32.98	77.85	-91.16	127.34	595.27	531.07	64.19	9.273	
9,600.00	9,553.46	9,425.59	9,342.49	34.53	33.06	74.81	-58.32	131.78	624.76	561.62	63.13	9.896	
9,700.00	9,653.46	9,469.75	9,373.77	34.87	33.12	72.07	-27.45	135.96	662.77	601.11	61.67	10.748	
9,800.00	9,753.46	9,500.00	9,393.76	35.22	33.16	70.15	-4.96	139.00	709.03	649.30	59.74	11.870	
9,900.00	9,853.46	9,550.00	9,424.11	35.57	33.23	66.95	34.40	144.32	762.71	704.33	58.37	13.066	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 401H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,955.59	9,909.05	9,550.00	9,424.11	35.76	33.23	66.95	34.40	144.32	795.33	738.40	56.93	13.970	
10,000.00	9,953.41	9,569.06	9,434.74	35.91	33.25	63.09	50.08	146.44	822.17	765.85	56.31	14.600	
10,050.00	10,003.03	9,583.98	9,442.70	36.08	33.27	59.01	62.58	148.13	852.26	796.80	55.46	15.367	
10,100.00	10,051.93	9,600.00	9,450.87	36.23	33.29	55.22	76.24	149.98	881.85	827.20	54.66	16.135	
10,150.00	10,099.75	9,615.48	9,458.40	36.38	33.31	51.80	89.64	151.79	910.68	856.81	53.87	16.906	
10,200.00	10,146.11	9,631.93	9,466.00	36.52	33.33	48.72	104.09	153.74	938.49	885.35	53.14	17.662	
10,250.00	10,190.67	9,650.00	9,473.86	36.64	33.35	45.96	120.22	155.92	965.07	912.59	52.48	18.389	
10,300.00	10,233.09	9,665.88	9,480.34	36.75	33.37	43.60	134.59	157.87	990.24	938.42	51.82	19.110	
10,350.00	10,273.04	9,683.31	9,486.98	36.85	33.39	41.51	150.55	160.03	1,013.85	962.61	51.24	19.787	
10,400.00	10,310.22	9,700.00	9,492.89	36.94	33.42	39.72	166.03	162.12	1,035.76	985.06	50.70	20.429	
10,450.00	10,344.35	9,718.83	9,499.00	37.01	33.44	38.17	183.68	164.50	1,055.84	1,005.58	50.26	21.009	
10,500.00	10,375.16	9,750.00	9,507.81	37.07	33.49	36.80	213.30	168.51	1,074.20	1,024.14	50.06	21.458	
10,550.00	10,402.43	9,750.00	9,507.81	37.11	33.49	35.80	213.30	168.51	1,090.16	1,040.68	49.48	22.031	
10,600.00	10,425.94	9,773.35	9,513.35	37.15	33.52	34.91	235.77	171.55	1,104.19	1,054.88	49.31	22.394	
10,650.00	10,445.52	9,800.00	9,518.53	37.19	33.57	34.23	261.68	175.05	1,116.18	1,066.94	49.23	22.671	
10,700.00	10,461.01	9,800.00	9,518.53	37.23	33.57	33.67	261.68	175.05	1,125.94	1,076.95	48.99	22.983	
10,750.00	10,472.31	9,828.68	9,522.74	37.30	33.62	33.35	289.79	178.85	1,133.30	1,084.21	49.09	23.085	
10,800.00	10,479.31	9,850.00	9,524.94	37.41	33.65	33.17	310.80	181.69	1,138.55	1,089.34	49.22	23.133	
10,850.00	10,481.98	9,865.72	9,526.07	37.55	33.68	33.11	326.34	183.79	1,141.52	1,092.11	49.40	23.105	
10,858.49	10,482.00	9,868.86	9,526.24	37.57	33.69	33.11	329.45	184.21	1,141.80	1,092.35	49.45	23.091	
10,900.00	10,481.79	9,894.47	9,527.00	37.70	33.73	33.29	354.81	187.64	1,143.61	1,093.90	49.71	23.007	
11,000.00	10,481.28	9,966.21	9,527.54	38.06	33.90	33.74	425.91	197.25	1,150.03	1,099.62	50.41	22.814	
11,100.00	10,480.78	10,102.19	9,528.56	38.49	34.31	34.45	561.00	212.46	1,155.78	1,104.50	51.29	22.536	
11,200.00	10,480.27	10,254.53	9,529.70	38.98	34.94	34.78	713.19	218.26	1,157.30	1,105.13	52.16	22.187	
11,300.00	10,479.77	10,357.75	9,530.48	39.53	35.47	34.82	816.41	217.59	1,156.27	1,103.35	52.92	21.850	
11,400.00	10,479.26	10,457.74	9,531.22	40.14	36.04	34.85	916.40	216.92	1,155.24	1,101.49	53.75	21.493	
11,500.00	10,478.76	10,557.74	9,531.97	40.81	36.67	34.89	1,016.38	216.25	1,154.21	1,099.55	54.66	21.116	
11,600.00	10,478.25	10,657.73	9,532.72	41.54	37.37	34.92	1,116.37	215.58	1,153.18	1,097.53	55.65	20.723	
11,700.00	10,477.75	10,757.72	9,533.47	42.31	38.12	34.96	1,216.36	214.92	1,152.15	1,095.44	56.71	20.317	
11,800.00	10,477.24	10,857.71	9,534.21	43.14	38.93	34.99	1,316.34	214.25	1,151.12	1,093.28	57.84	19.903	
11,900.00	10,476.74	10,957.71	9,534.96	44.01	39.80	35.03	1,416.33	213.58	1,150.09	1,091.06	59.03	19.482	
12,000.00	10,476.23	11,057.70	9,535.71	44.92	40.71	35.06	1,516.32	212.91	1,149.07	1,088.78	60.29	19.059	
12,100.00	10,475.73	11,157.69	9,536.46	45.88	41.66	35.10	1,616.31	212.24	1,148.04	1,086.44	61.60	18.636	
12,200.00	10,475.22	11,257.68	9,537.20	46.87	42.66	35.14	1,716.29	211.57	1,147.01	1,084.04	62.97	18.215	
12,300.00	10,474.72	11,357.67	9,537.95	47.90	43.70	35.17	1,816.28	210.90	1,145.99	1,081.60	64.39	17.798	
12,400.00	10,474.22	11,457.67	9,538.70	48.97	44.78	35.21	1,916.27	210.24	1,144.96	1,079.11	65.86	17.386	
12,500.00	10,473.71	11,557.66	9,539.45	50.06	45.89	35.24	2,016.25	209.57	1,143.94	1,076.57	67.37	16.981	
12,600.00	10,473.21	11,657.65	9,540.19	51.19	47.03	35.28	2,116.24	208.90	1,142.91	1,073.99	68.92	16.584	
12,700.00	10,472.70	11,757.64	9,540.94	52.34	48.21	35.32	2,216.23	208.23	1,141.89	1,071.38	70.51	16.195	
12,800.00	10,472.20	11,857.63	9,541.69	53.52	49.41	35.35	2,316.22	207.56	1,140.87	1,068.73	72.13	15.816	
12,900.00	10,471.70	11,957.63	9,542.44	54.73	50.63	35.39	2,416.20	206.89	1,139.84	1,066.05	73.79	15.446	
13,000.00	10,471.19	12,057.62	9,543.18	55.96	51.88	35.42	2,516.19	206.22	1,138.82	1,063.34	75.48	15.087	
13,100.00	10,470.69	12,157.61	9,543.93	57.21	53.16	35.46	2,616.18	205.56	1,137.80	1,060.60	77.20	14.738	
13,200.00	10,470.19	12,257.60	9,544.68	58.48	54.45	35.50	2,716.16	204.89	1,136.78	1,057.83	78.95	14.398	
13,300.00	10,469.68	12,357.60	9,545.43	59.77	55.76	35.53	2,816.15	204.22	1,135.76	1,055.03	80.73	14.069	
13,400.00	10,469.18	12,457.59	9,546.17	61.07	57.09	35.57	2,916.14	203.55	1,134.74	1,052.22	82.52	13.751	
13,500.00	10,468.68	12,557.58	9,546.92	62.40	58.44	35.61	3,016.13	202.88	1,133.72	1,049.38	84.34	13.442	
13,600.00	10,468.18	12,657.57	9,547.67	63.73	59.80	35.64	3,116.11	202.21	1,132.71	1,046.52	86.18	13.143	
13,700.00	10,467.67	12,757.56	9,548.42	65.09	61.18	35.68	3,216.10	201.54	1,131.69	1,043.65	88.04	12.854	
13,800.00	10,467.17	12,857.56	9,549.16	66.46	62.57	35.72	3,316.09	200.88	1,130.67	1,040.75	89.92	12.574	
13,900.00	10,466.67	12,957.55	9,549.91	67.83	63.97	35.75	3,416.07	200.21	1,129.66	1,037.84	91.81	12.304	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 401H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	10,466.17	13,057.54	9,550.66	69.23	65.38	35.79	3,516.06	199.54	1,128.64	1,034.92	93.73	12.042	
14,100.00	10,465.67	13,157.53	9,551.41	70.63	66.81	35.83	3,616.05	198.87	1,127.63	1,031.98	95.65	11.789	
14,200.00	10,465.17	13,257.53	9,552.15	72.04	68.24	35.86	3,716.04	198.20	1,126.61	1,029.02	97.59	11.544	
14,300.00	10,464.66	13,357.52	9,552.90	73.47	69.69	35.90	3,816.02	197.53	1,125.60	1,026.05	99.54	11.307	
14,400.00	10,464.16	13,457.51	9,553.65	74.90	71.15	35.94	3,916.01	196.86	1,124.59	1,023.08	101.51	11.079	
14,500.00	10,463.66	13,557.50	9,554.40	76.34	72.61	35.98	4,016.00	196.20	1,123.57	1,020.09	103.49	10.857	
14,600.00	10,463.16	13,657.49	9,555.14	77.80	74.08	36.01	4,115.98	195.53	1,122.56	1,017.09	105.48	10.643	
14,700.00	10,462.66	13,757.49	9,555.89	79.26	75.56	36.05	4,215.97	194.86	1,121.55	1,014.08	107.47	10.435	
14,800.00	10,462.16	13,857.48	9,556.64	80.72	77.05	36.09	4,315.96	194.19	1,120.54	1,011.06	109.48	10.235	
14,900.00	10,461.66	13,957.47	9,557.39	82.20	78.54	36.13	4,415.95	193.52	1,119.53	1,008.03	111.50	10.040	
15,000.00	10,461.16	14,057.46	9,558.13	83.68	80.04	36.16	4,515.93	192.85	1,118.52	1,004.99	113.53	9.852	
15,100.00	10,460.66	14,157.46	9,558.88	85.16	81.54	36.20	4,615.92	192.18	1,117.51	1,001.95	115.56	9.670	
15,200.00	10,460.16	14,257.45	9,559.63	86.66	83.06	36.24	4,715.91	191.52	1,116.51	998.90	117.61	9.493	
15,300.00	10,459.66	14,357.44	9,560.38	88.16	84.57	36.28	4,815.89	190.85	1,115.50	995.84	119.66	9.323	
15,400.00	10,459.16	14,457.43	9,561.12	89.66	86.10	36.31	4,915.88	190.18	1,114.49	992.78	121.72	9.157	
15,500.00	10,458.66	14,557.42	9,561.87	91.17	87.62	36.35	5,015.87	189.51	1,113.49	989.71	123.78	8.996	
15,600.00	10,458.16	14,657.42	9,562.62	92.69	89.15	36.39	5,115.86	188.84	1,112.48	986.64	125.85	8.840	
15,700.00	10,457.66	14,757.41	9,563.37	94.21	90.69	36.43	5,215.84	188.17	1,111.48	983.55	127.92	8.689	
15,800.00	10,457.16	14,857.40	9,564.11	95.73	92.23	36.47	5,315.83	187.50	1,110.48	980.47	130.01	8.542	
15,900.00	10,456.66	14,957.39	9,564.86	97.26	93.77	36.51	5,415.82	186.84	1,109.47	977.38	132.09	8.399	
16,000.00	10,456.16	15,057.39	9,565.61	98.79	95.32	36.54	5,515.80	186.17	1,108.47	974.29	134.18	8.261	
16,100.00	10,455.66	15,157.38	9,566.36	100.33	96.87	36.58	5,615.79	185.50	1,107.47	971.19	136.28	8.126	
16,200.00	10,455.16	15,257.37	9,567.10	101.87	98.43	36.62	5,715.78	184.83	1,106.47	968.09	138.38	7.996	
16,300.00	10,454.67	15,357.36	9,567.85	103.41	99.98	36.66	5,815.77	184.16	1,105.47	964.98	140.49	7.869	
16,400.00	10,454.17	15,457.35	9,568.60	104.96	101.55	36.70	5,915.75	183.49	1,104.47	961.87	142.60	7.745	
16,500.00	10,453.67	15,557.35	9,569.35	106.51	103.11	36.74	6,015.74	182.82	1,103.47	958.76	144.71	7.625	
16,600.00	10,453.17	15,657.34	9,570.10	108.07	104.68	36.77	6,115.73	182.16	1,102.47	955.64	146.83	7.509	
16,700.00	10,452.67	15,757.33	9,570.84	109.62	106.25	36.81	6,215.72	181.49	1,101.47	952.53	148.95	7.395	
16,800.00	10,452.17	15,857.32	9,571.59	111.18	107.82	36.85	6,315.70	180.82	1,100.48	949.41	151.07	7.285	
16,900.00	10,451.68	15,957.32	9,572.34	112.74	109.39	36.89	6,415.69	180.15	1,099.48	946.28	153.20	7.177	
17,000.00	10,451.18	16,057.31	9,573.09	114.31	110.97	36.93	6,515.68	179.48	1,098.48	943.16	155.33	7.072	
17,100.00	10,450.68	16,157.30	9,573.83	115.88	112.55	36.97	6,615.66	178.81	1,097.49	940.03	157.46	6.970	
17,200.00	10,450.18	16,257.29	9,574.58	117.45	114.13	37.01	6,715.65	178.14	1,096.49	936.90	159.59	6.870	
17,300.00	10,449.69	16,357.28	9,575.33	119.02	115.71	37.05	6,815.64	177.48	1,095.50	933.77	161.73	6.774	
17,400.00	10,449.19	16,457.28	9,576.08	120.60	117.30	37.09	6,915.63	176.81	1,094.51	930.64	163.87	6.679	
17,500.00	10,448.69	16,557.27	9,576.82	122.17	118.89	37.13	7,015.61	176.14	1,093.52	927.50	166.02	6.587	
17,600.00	10,448.20	16,657.26	9,577.57	123.75	120.48	37.17	7,115.60	175.47	1,092.52	924.36	168.16	6.497	
17,700.00	10,447.70	16,757.25	9,578.32	125.33	122.07	37.20	7,215.59	174.80	1,091.53	921.22	170.31	6.409	
17,800.00	10,447.20	16,857.25	9,579.07	126.91	123.66	37.24	7,315.57	174.13	1,090.54	918.09	172.46	6.324	
17,900.00	10,446.71	16,957.24	9,579.81	128.50	125.25	37.28	7,415.56	173.46	1,089.55	914.94	174.61	6.240	
18,000.00	10,446.21	17,057.23	9,580.56	130.09	126.85	37.32	7,515.55	172.80	1,088.56	911.80	176.76	6.158	
18,100.00	10,445.71	17,157.22	9,581.31	131.67	128.45	37.36	7,615.54	172.13	1,087.58	908.66	178.92	6.079	
18,200.00	10,445.22	17,257.21	9,582.06	133.26	130.05	37.40	7,715.52	171.46	1,086.59	905.52	181.07	6.001	
18,300.00	10,444.72	17,357.21	9,582.80	134.86	131.65	37.44	7,815.51	170.79	1,085.60	902.37	183.23	5.925	
18,400.00	10,444.23	17,457.20	9,583.55	136.45	133.25	37.48	7,915.50	170.12	1,084.62	899.22	185.39	5.850	
18,500.00	10,443.73	17,557.19	9,584.30	138.04	134.85	37.52	8,015.49	169.45	1,083.63	896.08	187.55	5.778	
18,600.00	10,443.24	17,657.18	9,585.05	139.64	136.46	37.56	8,115.47	168.78	1,082.65	892.93	189.71	5.707	
18,700.00	10,442.74	17,757.18	9,585.79	141.24	138.06	37.60	8,215.46	168.12	1,081.66	889.78	191.88	5.637	
18,800.00	10,442.25	17,857.17	9,586.54	142.84	139.67	37.64	8,315.45	167.45	1,080.68	886.63	194.04	5.569	
18,900.00	10,441.75	17,957.16	9,587.29	144.44	141.28	37.68	8,415.43	166.78	1,079.70	883.49	196.21	5.503	
19,000.00	10,441.26	18,057.15	9,588.04	146.04	142.89	37.72	8,515.42	166.11	1,078.71	880.34	198.38	5.438	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 401H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,100.00	10,440.76	18,157.15	9,588.78	147.64	144.50	37.77	8,615.41	165.44	1,077.73	877.19	200.55	5.374	
19,200.00	10,440.27	18,257.14	9,589.53	149.24	146.11	37.81	8,715.40	164.77	1,076.75	874.04	202.72	5.312	
19,300.00	10,439.77	18,357.13	9,590.28	150.85	147.72	37.85	8,815.38	164.10	1,075.77	870.89	204.89	5.251	
19,400.00	10,439.28	18,457.12	9,591.03	152.45	149.33	37.89	8,915.37	163.44	1,074.79	867.74	207.06	5.191	
19,500.00	10,438.78	18,557.11	9,591.77	154.06	150.95	37.93	9,015.36	162.77	1,073.82	864.58	209.23	5.132	
19,600.00	10,438.29	18,657.11	9,592.52	155.67	152.56	37.97	9,115.35	162.10	1,072.84	861.43	211.40	5.075	
19,700.00	10,437.80	18,757.10	9,593.27	157.28	154.18	38.01	9,215.33	161.43	1,071.86	858.28	213.58	5.019	
19,800.00	10,437.30	18,857.09	9,594.02	158.89	155.79	38.05	9,315.32	160.76	1,070.88	855.13	215.75	4.963	
19,900.00	10,436.81	18,957.08	9,594.76	160.50	157.41	38.09	9,415.31	160.09	1,069.91	851.98	217.93	4.909	
20,000.00	10,436.32	19,057.08	9,595.51	162.11	159.03	38.13	9,515.29	159.42	1,068.93	848.83	220.11	4.856	
20,100.00	10,435.82	19,157.07	9,596.26	163.72	160.65	38.17	9,615.28	158.76	1,067.96	845.68	222.28	4.805	
20,200.00	10,435.33	19,257.06	9,597.01	165.34	162.27	38.22	9,715.27	158.09	1,066.99	842.53	224.46	4.754	
20,300.00	10,434.84	19,357.05	9,597.75	166.95	163.89	38.26	9,815.26	157.42	1,066.01	839.38	226.64	4.704	
20,400.00	10,434.34	19,457.05	9,598.50	168.57	165.51	38.30	9,915.24	156.75	1,065.04	836.22	228.82	4.655	
20,500.00	10,433.85	19,557.04	9,599.25	170.18	167.13	38.34	10,015.23	156.08	1,064.07	833.07	231.00	4.606	
20,600.00	10,433.36	19,657.03	9,600.00	171.80	168.75	38.38	10,115.22	155.41	1,063.10	829.92	233.18	4.559	
20,700.00	10,432.86	19,757.02	9,600.74	173.42	170.38	38.42	10,215.21	154.74	1,062.13	826.77	235.36	4.513	
20,800.00	10,432.37	19,857.01	9,601.49	175.04	172.00	38.46	10,315.19	154.08	1,061.16	823.62	237.54	4.467	
20,875.64	10,432.00	19,925.02	9,602.00	176.26	173.10	38.49	10,383.19	153.62	1,060.46	821.31	239.14	4.434	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 402H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	10.00	10.00	0.00	0.01	79.73	232.31	1,282.72	1,303.58				
100.00	100.00	110.00	110.00	0.14	0.17	79.73	232.31	1,282.72	1,303.58	1,303.28	0.31	4,265.693	
200.00	200.00	210.00	210.00	0.49	0.53	79.73	232.31	1,282.72	1,303.58	1,302.56	1.02	1,274.849	
300.00	300.00	310.00	310.00	0.85	0.89	79.73	232.31	1,282.72	1,303.58	1,301.85	1.74	749.409	
400.00	400.00	410.00	410.00	1.21	1.25	79.73	232.31	1,282.72	1,303.58	1,301.13	2.46	530.683	
500.00	500.00	510.00	510.00	1.57	1.60	79.73	232.31	1,282.72	1,303.58	1,300.41	3.17	410.789	
600.00	600.00	610.00	610.00	1.93	1.96	79.73	232.31	1,282.72	1,303.58	1,299.69	3.89	335.085	
700.00	700.00	710.00	710.00	2.29	2.32	79.73	232.31	1,282.72	1,303.58	1,298.98	4.61	282.942	
800.00	800.00	810.00	810.00	2.64	2.68	79.73	232.31	1,282.72	1,303.58	1,298.26	5.32	244.841	
900.00	900.00	910.00	910.00	3.00	3.04	79.73	232.31	1,282.72	1,303.58	1,297.54	6.04	215.784	
1,000.00	1,000.00	1,010.00	1,010.00	3.36	3.40	79.73	232.31	1,282.72	1,303.58	1,296.83	6.76	192.893	
1,100.00	1,100.00	1,110.00	1,110.00	3.72	3.75	79.73	232.31	1,282.72	1,303.58	1,296.11	7.48	174.392	
1,200.00	1,200.00	1,210.00	1,210.00	4.08	4.11	79.73	232.31	1,282.72	1,303.58	1,295.39	8.19	159.130	
1,300.00	1,300.00	1,310.00	1,310.00	4.44	4.47	79.73	232.31	1,282.72	1,303.58	1,294.68	8.91	146.324	
1,400.00	1,400.00	1,410.00	1,410.00	4.80	4.83	79.73	232.31	1,282.72	1,303.58	1,293.96	9.63	135.425	
1,500.00	1,500.00	1,510.00	1,510.00	5.15	5.19	79.73	232.31	1,282.72	1,303.58	1,293.24	10.34	126.038	
1,600.00	1,600.00	1,610.00	1,610.00	5.51	5.55	79.73	232.31	1,282.72	1,303.58	1,292.52	11.06	117.868	
1,700.00	1,700.00	1,710.00	1,710.00	5.87	5.91	79.73	232.31	1,282.72	1,303.58	1,291.81	11.78	110.692	
1,800.00	1,800.00	1,810.00	1,810.00	6.23	6.26	79.73	232.31	1,282.72	1,303.58	1,291.09	12.49	104.340	
1,900.00	1,900.00	1,910.00	1,910.00	6.59	6.62	79.73	232.31	1,282.72	1,303.58	1,290.37	13.21	98.677	
2,000.00	2,000.00	2,010.00	2,010.00	6.95	6.98	79.73	232.31	1,282.72	1,303.58	1,289.66	13.93	93.598	
2,100.00	2,100.00	2,110.00	2,110.00	7.30	7.34	79.73	232.31	1,282.72	1,303.58	1,288.94	14.64	89.016	
2,112.96	2,112.96	2,122.96	2,122.96	7.35	7.39	79.73	232.31	1,282.72	1,303.58	1,288.85	14.74	88.454 CC	
2,200.00	2,200.00	2,209.30	2,209.30	7.66	7.69	79.74	232.30	1,282.72	1,303.59	1,288.23	15.36	84.884 ES	
2,300.00	2,299.98	2,300.00	2,299.98	8.01	8.00	-164.21	230.67	1,283.31	1,305.59	1,289.58	16.01	81.544	
2,400.00	2,399.84	2,394.90	2,394.75	8.34	8.31	-164.02	226.08	1,284.96	1,311.49	1,294.84	16.65	78.757	
2,500.00	2,499.45	2,486.99	2,486.51	8.68	8.62	-163.73	218.80	1,287.58	1,321.30	1,304.01	17.29	76.426	
2,600.00	2,598.70	2,578.26	2,577.16	9.03	8.92	-163.33	208.85	1,291.16	1,335.03	1,317.10	17.93	74.470	
2,700.00	2,697.47	2,668.46	2,666.37	9.38	9.23	-162.84	196.35	1,295.65	1,352.67	1,334.10	18.57	72.851	
2,800.00	2,795.62	2,757.34	2,753.83	9.75	9.54	-162.26	181.46	1,301.01	1,374.24	1,355.03	19.21	71.534	
2,900.00	2,893.44	2,849.50	2,844.04	10.13	9.87	-161.72	163.72	1,307.39	1,398.04	1,378.17	19.88	70.336	
3,000.00	2,991.25	2,945.65	2,938.09	10.51	10.23	-161.16	144.91	1,314.16	1,422.05	1,401.48	20.57	69.130	
3,100.00	3,089.07	3,041.79	3,032.13	10.91	10.59	-160.62	126.10	1,320.92	1,446.17	1,424.90	21.28	67.969	
3,200.00	3,186.88	3,137.94	3,126.17	11.31	10.97	-160.10	107.29	1,327.69	1,470.42	1,448.43	21.99	66.854	
3,300.00	3,284.70	3,234.08	3,220.22	11.72	11.35	-159.60	88.48	1,334.45	1,494.78	1,472.06	22.72	65.784	
3,400.00	3,382.51	3,330.23	3,314.26	12.14	11.74	-159.11	69.67	1,341.22	1,519.25	1,495.79	23.46	64.759	
3,500.00	3,480.33	3,426.37	3,408.31	12.56	12.13	-158.64	50.86	1,347.98	1,543.81	1,519.61	24.21	63.778	
3,600.00	3,578.14	3,522.51	3,502.35	12.99	12.53	-158.18	32.05	1,354.75	1,568.48	1,543.52	24.96	62.840	
3,700.00	3,675.96	3,618.66	3,596.39	13.42	12.94	-157.74	13.24	1,361.52	1,593.24	1,567.52	25.72	61.943	
3,800.00	3,773.77	3,714.80	3,690.44	13.86	13.35	-157.31	-5.57	1,368.28	1,618.09	1,591.60	26.49	61.086	
3,900.00	3,871.59	3,810.95	3,784.48	14.30	13.76	-156.89	-24.38	1,375.05	1,643.02	1,615.75	27.26	60.267	
4,000.00	3,969.40	3,907.09	3,878.52	14.75	14.18	-156.48	-43.19	1,381.81	1,668.03	1,639.99	28.04	59.485	
4,100.00	4,067.22	4,003.24	3,972.57	15.19	14.60	-156.09	-62.00	1,388.58	1,693.12	1,664.29	28.83	58.736	
4,200.00	4,165.03	4,099.38	4,066.61	15.64	15.03	-155.71	-80.81	1,395.35	1,718.28	1,688.67	29.61	58.021	
4,300.00	4,262.84	4,195.53	4,160.66	16.10	15.45	-155.33	-99.62	1,402.11	1,743.51	1,713.11	30.41	57.337	
4,400.00	4,360.66	4,291.67	4,254.70	16.55	15.88	-154.97	-118.43	1,408.88	1,768.82	1,737.61	31.21	56.682	
4,500.00	4,458.47	4,387.82	4,348.74	17.01	16.32	-154.62	-137.24	1,415.64	1,794.18	1,762.17	32.01	56.055	
4,529.32	4,487.15	4,416.54	4,376.84	17.14	16.44	-154.52	-142.86	1,417.66	1,801.63	1,769.38	32.25	55.871	
4,600.00	4,556.46	4,502.46	4,461.15	17.46	16.83	-154.39	-158.40	1,423.26	1,818.49	1,785.58	32.91	55.254	
4,700.00	4,655.06	4,626.00	4,583.16	17.90	17.35	-154.27	-176.57	1,429.79	1,838.61	1,804.78	33.83	54.348	
4,800.00	4,754.18	4,751.43	4,707.78	18.31	17.84	-154.21	-189.94	1,434.60	1,854.24	1,819.52	34.72	53.407	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 402H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	4,878.20	4,834.23	18.69	18.31	-154.22	-198.23	1,437.58	1,865.32	1,829.75	35.57	52.440	
5,000.00	4,953.50	5,005.74	4,961.72	19.05	18.74	-154.29	-201.24	1,438.66	1,871.79	1,835.41	36.38	51.453	
5,100.00	5,053.46	5,107.48	5,063.46	19.39	19.06	-154.35	-201.25	1,438.67	1,874.29	1,837.24	37.05	50.587	
5,129.32	5,082.78	5,136.80	5,092.78	19.49	19.16	89.66	-201.25	1,438.67	1,874.42	1,837.18	37.24	50.329	
5,200.00	5,153.46	5,207.48	5,163.46	19.71	19.38	89.66	-201.25	1,438.67	1,874.42	1,836.72	37.71	49.711	
5,300.00	5,253.46	5,307.48	5,263.46	20.04	19.70	89.66	-201.25	1,438.67	1,874.42	1,836.06	38.36	48.859	
5,400.00	5,353.46	5,407.48	5,363.46	20.36	20.02	89.66	-201.25	1,438.67	1,874.42	1,835.40	39.02	48.033	
5,500.00	5,453.46	5,507.48	5,463.46	20.68	20.34	89.66	-201.25	1,438.67	1,874.42	1,834.74	39.69	47.232	
5,600.00	5,553.46	5,607.48	5,563.46	21.00	20.66	89.66	-201.25	1,438.67	1,874.42	1,834.07	40.35	46.456	
5,700.00	5,653.46	5,707.48	5,663.46	21.33	20.99	89.66	-201.25	1,438.67	1,874.42	1,833.41	41.01	45.703	
5,800.00	5,753.46	5,807.48	5,763.46	21.65	21.31	89.66	-201.25	1,438.67	1,874.42	1,832.74	41.68	44.971	
5,900.00	5,853.46	5,907.48	5,863.46	21.98	21.64	89.66	-201.25	1,438.67	1,874.42	1,832.07	42.35	44.262	
6,000.00	5,953.46	6,007.48	5,963.46	22.31	21.97	89.66	-201.25	1,438.67	1,874.42	1,831.40	43.02	43.572	
6,100.00	6,053.46	6,107.48	6,063.46	22.64	22.29	89.66	-201.25	1,438.67	1,874.42	1,830.73	43.69	42.903	
6,200.00	6,153.46	6,207.48	6,163.46	22.97	22.62	89.66	-201.25	1,438.67	1,874.42	1,830.06	44.36	42.252	
6,300.00	6,253.46	6,307.48	6,263.46	23.30	22.95	89.66	-201.25	1,438.67	1,874.42	1,829.38	45.04	41.619	
6,400.00	6,353.46	6,407.48	6,363.46	23.63	23.28	89.66	-201.25	1,438.67	1,874.42	1,828.71	45.71	41.004	
6,500.00	6,453.46	6,507.48	6,463.46	23.96	23.62	89.66	-201.25	1,438.67	1,874.42	1,828.03	46.39	40.406	
6,600.00	6,553.46	6,607.48	6,563.46	24.30	23.95	89.66	-201.25	1,438.67	1,874.42	1,827.35	47.07	39.824	
6,700.00	6,653.46	6,707.48	6,663.46	24.63	24.28	89.66	-201.25	1,438.67	1,874.42	1,826.68	47.75	39.258	
6,800.00	6,753.46	6,807.48	6,763.46	24.96	24.61	89.66	-201.25	1,438.67	1,874.42	1,826.00	48.43	38.706	
6,900.00	6,853.46	6,907.48	6,863.46	25.30	24.95	89.66	-201.25	1,438.67	1,874.42	1,825.31	49.11	38.169	
7,000.00	6,953.46	7,007.48	6,963.46	25.64	25.28	89.66	-201.25	1,438.67	1,874.42	1,824.63	49.79	37.646	
7,100.00	7,053.46	7,107.48	7,063.46	25.97	25.62	89.66	-201.25	1,438.67	1,874.42	1,823.95	50.47	37.137	
7,200.00	7,153.46	7,207.48	7,163.46	26.31	25.96	89.66	-201.25	1,438.67	1,874.42	1,823.26	51.16	36.640	
7,300.00	7,253.46	7,307.48	7,263.46	26.65	26.29	89.66	-201.25	1,438.67	1,874.42	1,822.58	51.84	36.156	
7,400.00	7,353.46	7,407.48	7,363.46	26.98	26.63	89.66	-201.25	1,438.67	1,874.42	1,821.89	52.53	35.684	
7,500.00	7,453.46	7,507.48	7,463.46	27.32	26.97	89.66	-201.25	1,438.67	1,874.42	1,821.21	53.21	35.224	
7,600.00	7,553.46	7,607.48	7,563.46	27.66	27.31	89.66	-201.25	1,438.67	1,874.42	1,820.52	53.90	34.774	
7,700.00	7,653.46	7,707.48	7,663.46	28.00	27.65	89.66	-201.25	1,438.67	1,874.42	1,819.83	54.59	34.336	
7,800.00	7,753.46	7,807.48	7,763.46	28.34	27.99	89.66	-201.25	1,438.67	1,874.42	1,819.14	55.28	33.908	
7,900.00	7,853.46	7,907.48	7,863.46	28.68	28.33	89.66	-201.25	1,438.67	1,874.42	1,818.45	55.97	33.490	
8,000.00	7,953.46	8,007.48	7,963.46	29.02	28.67	89.66	-201.25	1,438.67	1,874.42	1,817.76	56.66	33.082	
8,100.00	8,053.46	8,107.48	8,063.46	29.36	29.01	89.66	-201.25	1,438.67	1,874.42	1,817.07	57.35	32.684	
8,200.00	8,153.46	8,207.48	8,163.46	29.71	29.35	89.66	-201.25	1,438.67	1,874.42	1,816.38	58.04	32.294	
8,300.00	8,253.46	8,307.48	8,263.46	30.05	29.69	89.66	-201.25	1,438.67	1,874.42	1,815.69	58.73	31.914	
8,400.00	8,353.46	8,407.48	8,363.46	30.39	30.03	89.66	-201.25	1,438.67	1,874.42	1,815.00	59.43	31.542	
8,500.00	8,453.46	8,507.48	8,463.46	30.73	30.37	89.66	-201.25	1,438.67	1,874.42	1,814.30	60.12	31.178	
8,600.00	8,553.46	8,607.48	8,563.46	31.08	30.72	89.66	-201.25	1,438.67	1,874.42	1,813.61	60.81	30.822	
8,700.00	8,653.46	8,707.48	8,663.46	31.42	31.06	89.66	-201.25	1,438.67	1,874.42	1,812.91	61.51	30.474	
8,800.00	8,753.46	8,807.48	8,763.46	31.76	31.40	89.66	-201.25	1,438.67	1,874.42	1,812.22	62.20	30.134	
8,900.00	8,853.46	8,907.48	8,863.46	32.11	31.75	89.66	-201.25	1,438.67	1,874.42	1,811.52	62.90	29.801	
9,000.00	8,953.46	9,007.48	8,963.46	32.45	32.09	89.66	-201.25	1,438.67	1,874.42	1,810.83	63.59	29.475	
9,006.94	8,960.39	9,014.41	8,970.39	32.48	32.12	89.66	-201.25	1,438.67	1,874.42	1,810.78	63.64	29.452	
9,100.00	9,053.46	9,088.04	9,043.97	32.80	32.36	89.60	-199.50	1,438.89	1,874.76	1,810.55	64.21	29.199	
9,200.00	9,153.46	9,150.00	9,105.36	33.14	32.56	89.36	-191.38	1,439.91	1,876.65	1,811.94	64.71	29.000	
9,300.00	9,253.46	9,222.00	9,175.08	33.49	32.75	88.82	-173.76	1,442.14	1,880.34	1,815.12	65.21	28.834	
9,400.00	9,353.46	9,282.94	9,231.97	33.83	32.90	88.16	-152.16	1,444.87	1,886.14	1,820.52	65.63	28.741	
9,500.00	9,453.46	9,338.63	9,281.67	34.18	33.02	87.41	-127.28	1,448.01	1,894.40	1,828.44	65.96	28.720	
9,600.00	9,553.46	9,388.80	9,324.18	34.53	33.11	86.62	-100.87	1,451.35	1,905.45	1,839.24	66.21	28.777	
9,700.00	9,653.46	9,433.58	9,360.02	34.87	33.19	85.82	-74.25	1,454.71	1,919.61	1,853.23	66.38	28.919	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 402H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,753.46	9,473.33	9,390.00	35.22	33.25	85.05	-48.36	1,457.98	1,937.14	1,870.68	66.45	29.150	
9,900.00	9,853.46	9,500.00	9,409.06	35.57	33.29	84.50	-29.87	1,460.32	1,958.26	1,891.87	66.39	29.497	
9,955.59	9,909.05	9,526.32	9,427.01	35.76	33.32	83.94	-10.77	1,462.73	1,971.52	1,905.14	66.39	29.698	
10,000.00	9,953.41	9,550.00	9,442.38	35.91	33.35	82.66	7.10	1,464.99	1,982.84	1,916.45	66.39	29.869	
10,050.00	10,003.03	9,550.00	9,442.38	36.08	33.35	81.33	7.10	1,464.99	1,995.84	1,929.63	66.21	30.146	
10,100.00	10,051.93	9,573.04	9,456.61	36.23	33.38	79.55	25.07	1,467.26	2,009.06	1,942.91	66.15	30.371	
10,150.00	10,099.75	9,600.00	9,472.33	36.38	33.41	77.76	46.80	1,470.00	2,022.44	1,956.33	66.11	30.594	
10,200.00	10,146.11	9,600.00	9,472.33	36.52	33.41	76.42	46.80	1,470.00	2,035.65	1,969.76	65.89	30.896	
10,250.00	10,190.67	9,624.86	9,485.89	36.64	33.44	74.78	67.47	1,472.61	2,048.64	1,982.83	65.82	31.127	
10,300.00	10,233.09	9,650.00	9,498.67	36.75	33.47	73.24	88.94	1,475.33	2,061.36	1,995.61	65.75	31.353	
10,350.00	10,273.04	9,650.00	9,498.67	36.85	33.47	72.03	88.94	1,475.33	2,073.61	2,008.08	65.53	31.645	
10,400.00	10,310.22	9,678.83	9,512.15	36.94	33.50	70.65	114.23	1,478.52	2,085.18	2,019.68	65.49	31.838	
10,450.00	10,344.35	9,700.00	9,521.22	37.01	33.52	69.46	133.21	1,480.92	2,096.14	2,030.71	65.43	32.038	
10,500.00	10,375.16	9,715.54	9,527.42	37.07	33.54	68.41	147.34	1,482.71	2,106.32	2,040.97	65.35	32.233	
10,550.00	10,402.43	9,734.04	9,534.30	37.11	33.56	67.46	164.38	1,484.86	2,115.65	2,050.34	65.31	32.394	
10,600.00	10,425.94	9,750.00	9,539.78	37.15	33.58	66.64	179.25	1,486.74	2,124.05	2,058.77	65.28	32.535	
10,650.00	10,445.52	9,771.20	9,546.42	37.19	33.61	65.94	199.22	1,489.26	2,131.45	2,066.13	65.32	32.631	
10,700.00	10,461.01	9,800.00	9,554.24	37.23	33.65	65.38	226.72	1,492.73	2,137.88	2,072.46	65.42	32.679	
10,750.00	10,472.31	9,800.00	9,554.24	37.30	33.65	64.90	226.72	1,492.73	2,143.14	2,077.71	65.43	32.756	
10,800.00	10,479.31	9,827.02	9,560.29	37.41	33.70	64.61	252.84	1,496.03	2,147.26	2,081.67	65.59	32.735	
10,850.00	10,481.98	9,850.00	9,564.47	37.55	33.73	64.44	275.26	1,498.86	2,150.31	2,084.53	65.78	32.690	
10,858.49	10,482.00	9,850.00	9,564.47	37.57	33.73	64.41	275.26	1,498.86	2,150.70	2,084.90	65.80	32.686	
10,900.00	10,481.79	9,850.00	9,564.47	37.70	33.73	64.41	275.26	1,498.86	2,152.96	2,087.05	65.91	32.666	
11,000.00	10,481.28	9,900.00	9,570.39	38.06	33.82	64.63	324.50	1,505.08	2,160.05	2,093.66	66.39	32.537	
11,100.00	10,480.78	9,940.17	9,572.00	38.49	33.90	64.74	364.31	1,510.11	2,170.12	2,103.26	66.87	32.454	
11,200.00	10,480.27	10,299.84	9,573.81	38.98	35.15	65.16	722.56	1,537.62	2,181.36	2,112.77	68.59	31.802	
11,300.00	10,479.77	10,399.83	9,574.31	39.53	35.66	65.18	822.55	1,536.96	2,180.94	2,111.37	69.57	31.349	
11,400.00	10,479.26	10,499.83	9,574.81	40.14	36.24	65.21	922.54	1,536.30	2,180.52	2,109.85	70.67	30.856	
11,500.00	10,478.76	10,599.82	9,575.31	40.81	36.88	65.23	1,022.53	1,535.64	2,180.10	2,108.22	71.88	30.329	
11,600.00	10,478.25	10,699.82	9,575.81	41.54	37.59	65.25	1,122.52	1,534.97	2,179.69	2,106.48	73.21	29.775	
11,700.00	10,477.75	10,799.81	9,576.30	42.31	38.35	65.28	1,222.51	1,534.31	2,179.27	2,104.64	74.63	29.200	
11,800.00	10,477.24	10,899.81	9,576.80	43.14	39.16	65.30	1,322.50	1,533.65	2,178.85	2,102.70	76.16	28.611	
11,900.00	10,476.74	10,999.80	9,577.30	44.01	40.03	65.33	1,422.50	1,532.99	2,178.44	2,100.66	77.77	28.011	
12,000.00	10,476.23	11,099.80	9,577.80	44.92	40.95	65.35	1,522.49	1,532.33	2,178.02	2,098.55	79.47	27.405	
12,100.00	10,475.73	11,199.79	9,578.30	45.88	41.91	65.37	1,622.48	1,531.67	2,177.60	2,096.35	81.26	26.798	
12,200.00	10,475.22	11,299.79	9,578.80	46.87	42.91	65.40	1,722.47	1,531.01	2,177.19	2,094.07	83.12	26.193	
12,300.00	10,474.72	11,399.78	9,579.30	47.90	43.95	65.42	1,822.46	1,530.35	2,176.78	2,091.72	85.05	25.594	
12,400.00	10,474.22	11,499.78	9,579.79	48.97	45.03	65.45	1,922.45	1,529.69	2,176.36	2,089.31	87.05	25.001	
12,500.00	10,473.71	11,599.77	9,580.29	50.06	46.14	65.47	2,022.45	1,529.03	2,175.95	2,086.84	89.11	24.419	
12,600.00	10,473.21	11,699.77	9,580.79	51.19	47.29	65.49	2,122.44	1,528.36	2,175.54	2,084.31	91.23	23.847	
12,700.00	10,472.70	11,799.76	9,581.29	52.34	48.46	65.52	2,222.43	1,527.70	2,175.12	2,081.72	93.40	23.288	
12,800.00	10,472.20	11,899.76	9,581.79	53.52	49.66	65.54	2,322.42	1,527.04	2,174.71	2,079.09	95.63	22.742	
12,900.00	10,471.70	11,999.75	9,582.29	54.73	50.89	65.57	2,422.41	1,526.38	2,174.30	2,076.41	97.90	22.210	
13,000.00	10,471.19	12,099.75	9,582.78	55.96	52.14	65.59	2,522.40	1,525.72	2,173.89	2,073.68	100.21	21.693	
13,100.00	10,470.69	12,199.74	9,583.28	57.21	53.41	65.61	2,622.39	1,525.06	2,173.48	2,070.92	102.56	21.192	
13,200.00	10,470.19	12,299.74	9,583.78	58.48	54.71	65.64	2,722.39	1,524.40	2,173.07	2,068.12	104.96	20.705	
13,300.00	10,469.68	12,399.73	9,584.28	59.77	56.02	65.66	2,822.38	1,523.74	2,172.66	2,065.28	107.38	20.233	
13,400.00	10,469.18	12,499.73	9,584.78	61.07	57.35	65.69	2,922.37	1,523.08	2,172.25	2,062.41	109.84	19.776	
13,500.00	10,468.68	12,599.72	9,585.28	62.40	58.69	65.71	3,022.36	1,522.41	2,171.85	2,059.51	112.34	19.333	
13,600.00	10,468.18	12,699.72	9,585.78	63.73	60.06	65.73	3,122.35	1,521.75	2,171.44	2,056.58	114.86	18.905	
13,700.00	10,467.67	12,799.71	9,586.27	65.09	61.43	65.76	3,222.34	1,521.09	2,171.03	2,053.63	117.41	18.492	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 402H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	10,467.17	12,899.71	9,586.77	66.46	62.82	65.78	3,322.34	1,520.43	2,170.63	2,050.65	119.98	18.092	
13,900.00	10,466.67	12,999.70	9,587.27	67.83	64.23	65.81	3,422.33	1,519.77	2,170.22	2,047.64	122.58	17.705	
14,000.00	10,466.17	13,099.70	9,587.77	69.23	65.64	65.83	3,522.32	1,519.11	2,169.81	2,044.62	125.20	17.331	
14,100.00	10,465.67	13,199.69	9,588.27	70.63	67.06	65.86	3,622.31	1,518.45	2,169.41	2,041.57	127.84	16.969	
14,200.00	10,465.17	13,299.69	9,588.77	72.04	68.50	65.88	3,722.30	1,517.79	2,169.01	2,038.50	130.50	16.620	
14,300.00	10,464.66	13,399.68	9,589.26	73.47	69.95	65.90	3,822.29	1,517.13	2,168.60	2,035.42	133.18	16.283	
14,400.00	10,464.16	13,499.68	9,589.76	74.90	71.40	65.93	3,922.29	1,516.47	2,168.20	2,032.32	135.88	15.957	
14,500.00	10,463.66	13,599.67	9,590.26	76.34	72.86	65.95	4,022.28	1,515.80	2,167.80	2,029.20	138.59	15.641	
14,600.00	10,463.16	13,699.67	9,590.76	77.80	74.33	65.98	4,122.27	1,515.14	2,167.39	2,026.07	141.32	15.336	
14,700.00	10,462.66	13,799.66	9,591.26	79.26	75.81	66.00	4,222.26	1,514.48	2,166.99	2,022.92	144.07	15.041	
14,800.00	10,462.16	13,899.66	9,591.76	80.72	77.30	66.02	4,322.25	1,513.82	2,166.59	2,019.76	146.83	14.756	
14,900.00	10,461.66	13,999.65	9,592.26	82.20	78.79	66.05	4,422.24	1,513.16	2,166.19	2,016.59	149.60	14.480	
15,000.00	10,461.16	14,099.65	9,592.75	83.68	80.29	66.07	4,522.23	1,512.50	2,165.79	2,013.40	152.39	14.212	
15,100.00	10,460.66	14,199.64	9,593.25	85.16	81.80	66.10	4,622.23	1,511.84	2,165.39	2,010.20	155.19	13.953	
15,200.00	10,460.16	14,299.64	9,593.75	86.66	83.31	66.12	4,722.22	1,511.18	2,164.99	2,007.00	157.99	13.703	
15,300.00	10,459.66	14,399.63	9,594.25	88.16	84.82	66.15	4,822.21	1,510.52	2,164.59	2,003.78	160.81	13.460	
15,400.00	10,459.16	14,499.63	9,594.75	89.66	86.35	66.17	4,922.20	1,509.85	2,164.20	2,000.55	163.64	13.225	
15,500.00	10,458.66	14,599.62	9,595.25	91.17	87.87	66.19	5,022.19	1,509.19	2,163.80	1,997.31	166.48	12.997	
15,600.00	10,458.16	14,699.62	9,595.74	92.69	89.40	66.22	5,122.18	1,508.53	2,163.40	1,994.07	169.33	12.776	
15,700.00	10,457.66	14,799.61	9,596.24	94.21	90.94	66.24	5,222.18	1,507.87	2,163.01	1,990.82	172.19	12.562	
15,800.00	10,457.16	14,899.61	9,596.74	95.73	92.48	66.27	5,322.17	1,507.21	2,162.61	1,987.56	175.05	12.354	
15,900.00	10,456.66	14,999.60	9,597.24	97.26	94.02	66.29	5,422.16	1,506.55	2,162.21	1,984.29	177.93	12.152	
16,000.00	10,456.16	15,099.60	9,597.74	98.79	95.57	66.32	5,522.15	1,505.89	2,161.82	1,981.01	180.81	11.956	
16,100.00	10,455.66	15,199.59	9,598.24	100.33	97.12	66.34	5,622.14	1,505.23	2,161.42	1,977.73	183.70	11.766	
16,200.00	10,455.16	15,299.59	9,598.74	101.87	98.67	66.36	5,722.13	1,504.57	2,161.03	1,974.44	186.59	11.582	
16,300.00	10,454.67	15,399.58	9,599.23	103.41	100.23	66.39	5,822.13	1,503.91	2,160.64	1,971.14	189.49	11.402	
16,400.00	10,454.17	15,499.58	9,599.73	104.96	101.79	66.41	5,922.12	1,503.24	2,160.25	1,967.84	192.40	11.228	
16,500.00	10,453.67	15,599.57	9,600.23	106.51	103.36	66.44	6,022.11	1,502.58	2,159.85	1,964.54	195.32	11.058	
16,600.00	10,453.17	15,699.57	9,600.73	108.07	104.92	66.46	6,122.10	1,501.92	2,159.46	1,961.22	198.24	10.893	
16,700.00	10,452.67	15,799.56	9,601.23	109.62	106.49	66.49	6,222.09	1,501.26	2,159.07	1,957.90	201.17	10.733	
16,800.00	10,452.17	15,899.56	9,601.73	111.18	108.06	66.51	6,322.08	1,500.60	2,158.68	1,954.58	204.10	10.577	
16,900.00	10,451.68	15,999.55	9,602.22	112.74	109.64	66.53	6,422.08	1,499.94	2,158.29	1,951.25	207.04	10.425	
17,000.00	10,451.18	16,099.55	9,602.72	114.31	111.21	66.56	6,522.07	1,499.28	2,157.90	1,947.92	209.98	10.277	
17,100.00	10,450.68	16,199.54	9,603.22	115.88	112.79	66.58	6,622.06	1,498.62	2,157.51	1,944.59	212.92	10.133	
17,200.00	10,450.18	16,299.54	9,603.72	117.45	114.37	66.61	6,722.05	1,497.96	2,157.12	1,941.25	215.87	9.993	
17,300.00	10,449.69	16,399.53	9,604.22	119.02	115.96	66.63	6,822.04	1,497.29	2,156.73	1,937.91	218.83	9.856	
17,400.00	10,449.19	16,499.53	9,604.72	120.60	117.54	66.66	6,922.03	1,496.63	2,156.35	1,934.56	221.79	9.722	
17,500.00	10,448.69	16,599.52	9,605.22	122.17	119.13	66.68	7,022.02	1,495.97	2,155.96	1,931.21	224.75	9.593	
17,600.00	10,448.20	16,699.52	9,605.71	123.75	120.72	66.70	7,122.02	1,495.31	2,155.57	1,927.85	227.72	9.466	
17,700.00	10,447.70	16,799.51	9,606.21	125.33	122.31	66.73	7,222.01	1,494.65	2,155.19	1,924.49	230.70	9.342	
17,800.00	10,447.20	16,899.51	9,606.71	126.91	123.90	66.75	7,322.00	1,493.99	2,154.80	1,921.13	233.67	9.221	
17,900.00	10,446.71	16,999.50	9,607.21	128.50	125.50	66.78	7,421.99	1,493.33	2,154.42	1,917.77	236.65	9.104	
18,000.00	10,446.21	17,099.50	9,607.71	130.09	127.09	66.80	7,521.98	1,492.67	2,154.03	1,914.40	239.63	8.989	
18,100.00	10,445.71	17,199.49	9,608.21	131.67	128.69	66.83	7,621.97	1,492.01	2,153.65	1,911.03	242.62	8.877	
18,200.00	10,445.22	17,299.49	9,608.70	133.26	130.29	66.85	7,721.97	1,491.35	2,153.27	1,907.66	245.61	8.767	
18,300.00	10,444.72	17,399.48	9,609.20	134.86	131.89	66.88	7,821.96	1,490.68	2,152.88	1,904.28	248.60	8.660	
18,400.00	10,444.23	17,499.48	9,609.70	136.45	133.49	66.90	7,921.95	1,490.02	2,152.50	1,900.90	251.60	8.555	
18,500.00	10,443.73	17,599.47	9,610.20	138.04	135.09	66.92	8,021.94	1,489.36	2,152.12	1,897.52	254.60	8.453	
18,600.00	10,443.24	17,699.47	9,610.70	139.64	136.70	66.95	8,121.93	1,488.70	2,151.74	1,894.14	257.60	8.353	
18,700.00	10,442.74	17,799.46	9,611.20	141.24	138.30	66.97	8,221.92	1,488.04	2,151.36	1,890.75	260.61	8.255	
18,800.00	10,442.25	17,899.46	9,611.69	142.84	139.91	67.00	8,321.92	1,487.38	2,150.98	1,887.37	263.61	8.160	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 402H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	10,441.75	17,999.45	9,612.19	144.44	141.52	67.02	8,421.91	1,486.72	2,150.60	1,883.98	266.62	8.066	
19,000.00	10,441.26	18,099.45	9,612.69	146.04	143.13	67.05	8,521.90	1,486.06	2,150.22	1,880.59	269.64	7.975	
19,100.00	10,440.76	18,199.44	9,613.19	147.64	144.73	67.07	8,621.89	1,485.40	2,149.84	1,877.19	272.65	7.885	
19,200.00	10,440.27	18,299.44	9,613.69	149.24	146.35	67.10	8,721.88	1,484.73	2,149.46	1,873.80	275.67	7.797	
19,300.00	10,439.77	18,399.43	9,614.19	150.85	147.96	67.12	8,821.87	1,484.07	2,149.09	1,870.40	278.69	7.711	
19,400.00	10,439.28	18,499.43	9,614.69	152.45	149.57	67.14	8,921.87	1,483.41	2,148.71	1,867.00	281.71	7.627	
19,500.00	10,438.78	18,599.42	9,615.18	154.06	151.18	67.17	9,021.86	1,482.75	2,148.33	1,863.60	284.73	7.545	
19,600.00	10,438.29	18,699.42	9,615.68	155.67	152.80	67.19	9,121.85	1,482.09	2,147.96	1,860.20	287.76	7.464	
19,700.00	10,437.80	18,799.41	9,616.18	157.28	154.41	67.22	9,221.84	1,481.43	2,147.58	1,856.80	290.79	7.385	
19,800.00	10,437.30	18,899.41	9,616.68	158.89	156.03	67.24	9,321.83	1,480.77	2,147.21	1,853.39	293.82	7.308	
19,900.00	10,436.81	18,999.40	9,617.18	160.50	157.65	67.27	9,421.82	1,480.11	2,146.83	1,849.99	296.85	7.232	
20,000.00	10,436.32	19,099.40	9,617.68	162.11	159.27	67.29	9,521.82	1,479.45	2,146.46	1,846.58	299.88	7.158	
20,100.00	10,435.82	19,199.39	9,618.17	163.72	160.88	67.32	9,621.81	1,478.79	2,146.09	1,843.17	302.92	7.085	
20,200.00	10,435.33	19,299.39	9,618.67	165.34	162.50	67.34	9,721.80	1,478.12	2,145.71	1,839.76	305.96	7.013	
20,300.00	10,434.84	19,399.38	9,619.17	166.95	164.12	67.37	9,821.79	1,477.46	2,145.34	1,836.34	309.00	6.943	
20,400.00	10,434.34	19,499.38	9,619.67	168.57	165.75	67.39	9,921.78	1,476.80	2,144.97	1,832.93	312.04	6.874	
20,500.00	10,433.85	19,599.38	9,620.17	170.18	167.37	67.41	10,021.77	1,476.14	2,144.60	1,829.52	315.08	6.806	
20,600.00	10,433.36	19,699.37	9,620.67	171.80	168.99	67.44	10,121.77	1,475.48	2,144.23	1,826.10	318.13	6.740	
20,700.00	10,432.86	19,799.37	9,621.17	173.42	170.61	67.46	10,221.76	1,474.82	2,143.86	1,822.69	321.17	6.675	
20,800.00	10,432.37	19,899.36	9,621.66	175.04	172.24	67.49	10,321.75	1,474.16	2,143.49	1,819.27	324.22	6.611	
20,874.96	10,432.00	19,966.82	9,622.00	176.25	173.33	67.50	10,389.21	1,473.71	2,143.23	1,816.83	326.39	6.566	
20,875.64	10,432.00	19,966.82	9,622.00	176.26	173.33	67.50	10,389.21	1,473.71	2,143.23	1,816.82	326.40	6.566	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 403H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	14.00	14.00	0.00	0.02	87.36	131.51	2,853.82	2,856.85				
100.00	100.00	114.00	114.00	0.14	0.18	87.36	131.51	2,853.82	2,856.85	2,856.53	0.32	8,929.444	
200.00	200.00	214.00	214.00	0.49	0.54	87.36	131.51	2,853.82	2,856.85	2,855.82	1.04	2,755.242	
300.00	300.00	314.00	314.00	0.85	0.90	87.36	131.51	2,853.82	2,856.85	2,855.10	1.75	1,628.929	
400.00	400.00	414.00	414.00	1.21	1.26	87.36	131.51	2,853.82	2,856.85	2,854.38	2.47	1,156.262	
500.00	500.00	514.00	514.00	1.57	1.62	87.36	131.51	2,853.82	2,856.85	2,853.67	3.19	896.209	
600.00	600.00	614.00	614.00	1.93	1.98	87.36	131.51	2,853.82	2,856.85	2,852.95	3.90	731.654	
700.00	700.00	714.00	714.00	2.29	2.34	87.36	131.51	2,853.82	2,856.85	2,852.23	4.62	618.153	
800.00	800.00	814.00	814.00	2.64	2.69	87.36	131.51	2,853.82	2,856.85	2,851.51	5.34	535.138	
900.00	900.00	914.00	914.00	3.00	3.05	87.36	131.51	2,853.82	2,856.85	2,850.80	6.06	471.780	
1,000.00	1,000.00	1,014.00	1,014.00	3.36	3.41	87.36	131.51	2,853.82	2,856.85	2,850.08	6.77	421.836	
1,100.00	1,100.00	1,114.00	1,114.00	3.72	3.77	87.36	131.51	2,853.82	2,856.85	2,849.36	7.49	381.455	
1,200.00	1,200.00	1,214.00	1,214.00	4.08	4.13	87.36	131.51	2,853.82	2,856.85	2,848.65	8.21	348.129	
1,300.00	1,300.00	1,314.00	1,314.00	4.44	4.49	87.36	131.51	2,853.82	2,856.85	2,847.93	8.92	320.158	
1,400.00	1,400.00	1,414.00	1,414.00	4.80	4.84	87.36	131.51	2,853.82	2,856.85	2,847.21	9.64	296.348	
1,500.00	1,500.00	1,514.00	1,514.00	5.15	5.20	87.36	131.51	2,853.82	2,856.85	2,846.50	10.36	275.834	
1,600.00	1,600.00	1,614.00	1,614.00	5.51	5.56	87.36	131.51	2,853.82	2,856.85	2,845.78	11.07	257.977	
1,700.00	1,700.00	1,714.00	1,714.00	5.87	5.92	87.36	131.51	2,853.82	2,856.85	2,845.06	11.79	242.290	
1,800.00	1,800.00	1,814.00	1,814.00	6.23	6.28	87.36	131.51	2,853.82	2,856.85	2,844.35	12.51	228.403	
1,900.00	1,900.00	1,914.00	1,914.00	6.59	6.64	87.36	131.51	2,853.82	2,856.85	2,843.63	13.22	216.021	
2,000.00	2,000.00	2,014.00	2,014.00	6.95	7.00	87.36	131.51	2,853.82	2,856.85	2,842.91	13.94	204.912	
2,100.00	2,100.00	2,114.00	2,114.00	7.30	7.35	87.36	131.51	2,853.82	2,856.85	2,842.19	14.66	194.890	
2,111.24	2,111.24	2,125.24	2,125.24	7.35	7.39	87.36	131.51	2,853.82	2,856.85	2,842.11	14.74	193.824	CC
2,200.00	2,200.00	2,213.65	2,213.65	7.66	7.71	87.36	131.47	2,853.83	2,856.85	2,841.48	15.37	185.849	ES
2,300.00	2,299.98	2,311.12	2,311.09	8.01	8.04	-156.60	129.36	2,853.98	2,858.51	2,842.47	16.05	178.139	
2,400.00	2,399.84	2,408.35	2,408.17	8.34	8.35	-156.50	123.95	2,854.37	2,863.46	2,846.77	16.70	171.515	
2,500.00	2,499.45	2,505.13	2,504.55	8.68	8.67	-156.32	115.31	2,854.99	2,871.71	2,854.36	17.35	165.542	
2,600.00	2,598.70	2,600.00	2,598.70	9.03	8.99	-156.09	103.70	2,855.82	2,883.24	2,865.24	18.00	160.182	
2,700.00	2,697.47	2,696.51	2,694.03	9.38	9.31	-155.79	88.70	2,856.89	2,898.07	2,879.40	18.67	155.248	
2,800.00	2,795.62	2,790.74	2,786.56	9.75	9.64	-155.43	70.97	2,858.16	2,916.19	2,896.85	19.34	150.790	
2,900.00	2,893.44	2,887.67	2,881.37	10.13	10.00	-155.19	50.88	2,859.60	2,935.98	2,915.95	20.03	146.547	
3,000.00	2,991.25	2,984.96	2,976.54	10.51	10.36	-154.96	30.71	2,861.05	2,955.82	2,935.08	20.74	142.492	
3,100.00	3,089.07	3,082.24	3,071.70	10.91	10.73	-154.73	10.53	2,862.50	2,975.71	2,954.25	21.47	138.622	
3,200.00	3,186.88	3,179.53	3,166.86	11.31	11.11	-154.50	-9.64	2,863.94	2,995.65	2,973.45	22.20	134.932	
3,300.00	3,284.70	3,276.82	3,262.03	11.72	11.50	-154.27	-29.82	2,865.39	3,015.63	2,992.69	22.95	131.418	
3,400.00	3,382.51	3,374.11	3,357.19	12.14	11.90	-154.05	-50.00	2,866.84	3,035.66	3,011.96	23.70	128.074	
3,500.00	3,480.33	3,471.40	3,452.35	12.56	12.30	-153.83	-70.17	2,868.28	3,055.73	3,031.26	24.47	124.892	
3,600.00	3,578.14	3,572.39	3,551.22	12.99	12.72	-153.62	-90.70	2,869.75	3,075.82	3,050.56	25.25	121.797	
3,700.00	3,675.96	3,678.16	3,655.39	13.42	13.15	-153.46	-108.93	2,871.06	3,095.72	3,069.66	26.06	118.809	
3,800.00	3,773.77	3,784.53	3,760.76	13.86	13.57	-153.37	-123.39	2,872.10	3,115.37	3,088.52	26.85	116.028	
3,900.00	3,871.59	3,891.20	3,866.90	14.30	13.97	-153.36	-133.96	2,872.85	3,134.76	3,107.13	27.63	113.451	
4,000.00	3,969.40	3,997.90	3,973.38	14.75	14.36	-153.42	-140.58	2,873.33	3,153.88	3,125.48	28.40	111.070	
4,100.00	4,067.22	4,104.31	4,079.76	15.19	14.73	-153.55	-143.24	2,873.52	3,172.74	3,143.60	29.14	108.876	
4,200.00	4,165.03	4,203.58	4,179.03	15.64	15.06	-153.72	-143.30	2,873.52	3,191.45	3,161.60	29.85	106.920	
4,300.00	4,262.84	4,301.40	4,276.84	16.10	15.38	-153.88	-143.30	2,873.52	3,210.19	3,179.63	30.55	105.068	
4,400.00	4,360.66	4,399.21	4,374.66	16.55	15.71	-154.04	-143.30	2,873.52	3,228.95	3,197.69	31.26	103.294	
4,500.00	4,458.47	4,497.03	4,472.47	17.01	16.04	-154.20	-143.30	2,873.52	3,247.73	3,215.76	31.97	101.593	
4,529.32	4,487.15	4,525.70	4,501.15	17.14	16.13	-154.25	-143.30	2,873.52	3,253.24	3,221.07	32.18	101.107	
4,600.00	4,556.46	4,595.02	4,570.46	17.46	16.37	-154.47	-143.30	2,873.52	3,265.77	3,233.09	32.68	99.941	
4,700.00	4,655.06	4,693.61	4,669.06	17.90	16.70	-154.72	-143.30	2,873.52	3,280.85	3,247.46	33.38	98.277	
4,800.00	4,754.18	4,792.73	4,768.18	18.31	17.04	-154.92	-143.30	2,873.52	3,292.81	3,258.73	34.09	96.600	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 403H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	4,892.25	4,867.70	18.69	17.37	-155.07	-143.30	2,873.52	3,301.64	3,266.86	34.79	94.911	
5,000.00	4,953.50	4,992.05	4,967.50	19.05	17.71	-155.16	-143.30	2,873.52	3,307.32	3,271.84	35.48	93.214	
5,100.00	5,053.46	5,092.01	5,067.46	19.39	18.05	-155.20	-143.30	2,873.52	3,309.83	3,273.66	36.17	91.511	
5,129.32	5,082.78	5,121.33	5,096.78	19.49	18.15	88.80	-143.30	2,873.52	3,309.97	3,273.60	36.37	91.012	
5,200.00	5,153.46	5,192.01	5,167.46	19.71	18.40	88.80	-143.30	2,873.52	3,309.97	3,273.12	36.85	89.829	
5,300.00	5,253.46	5,292.01	5,267.46	20.04	18.74	88.80	-143.30	2,873.52	3,309.97	3,272.44	37.53	88.204	
5,400.00	5,353.46	5,392.01	5,367.46	20.36	19.08	88.80	-143.30	2,873.52	3,309.97	3,271.76	38.21	86.633	
5,500.00	5,453.46	5,492.01	5,467.46	20.68	19.42	88.80	-143.30	2,873.52	3,309.97	3,271.08	38.89	85.114	
5,600.00	5,553.46	5,592.01	5,567.46	21.00	19.77	88.80	-143.30	2,873.52	3,309.97	3,270.40	39.57	83.645	
5,700.00	5,653.46	5,692.01	5,667.46	21.33	20.11	88.80	-143.30	2,873.52	3,309.97	3,269.71	40.26	82.223	
5,800.00	5,753.46	5,792.01	5,767.46	21.65	20.46	88.80	-143.30	2,873.52	3,309.97	3,269.03	40.94	80.847	
5,900.00	5,853.46	5,892.01	5,867.46	21.98	20.80	88.80	-143.30	2,873.52	3,309.97	3,268.34	41.63	79.514	
6,000.00	5,953.46	5,992.01	5,967.46	22.31	21.15	88.80	-143.30	2,873.52	3,309.97	3,267.65	42.31	78.222	
6,100.00	6,053.46	6,092.01	6,067.46	22.64	21.49	88.80	-143.30	2,873.52	3,309.97	3,266.96	43.00	76.970	
6,200.00	6,153.46	6,192.01	6,167.46	22.97	21.84	88.80	-143.30	2,873.52	3,309.97	3,266.28	43.69	75.756	
6,300.00	6,253.46	6,292.01	6,267.46	23.30	22.19	88.80	-143.30	2,873.52	3,309.97	3,265.59	44.38	74.578	
6,400.00	6,353.46	6,392.01	6,367.46	23.63	22.53	88.80	-143.30	2,873.52	3,309.97	3,264.89	45.07	73.434	
6,500.00	6,453.46	6,492.01	6,467.46	23.96	22.88	88.80	-143.30	2,873.52	3,309.97	3,264.20	45.77	72.324	
6,600.00	6,553.46	6,592.01	6,567.46	24.30	23.23	88.80	-143.30	2,873.52	3,309.97	3,263.51	46.46	71.246	
6,700.00	6,653.46	6,692.01	6,667.46	24.63	23.58	88.80	-143.30	2,873.52	3,309.97	3,262.82	47.15	70.199	
6,800.00	6,753.46	6,792.01	6,767.46	24.96	23.92	88.80	-143.30	2,873.52	3,309.97	3,262.12	47.85	69.181	
6,900.00	6,853.46	6,892.01	6,867.46	25.30	24.27	88.80	-143.30	2,873.52	3,309.97	3,261.43	48.54	68.191	
7,000.00	6,953.46	6,992.01	6,967.46	25.64	24.62	88.80	-143.30	2,873.52	3,309.97	3,260.73	49.24	67.228	
7,100.00	7,053.46	7,092.01	7,067.46	25.97	24.97	88.80	-143.30	2,873.52	3,309.97	3,260.04	49.93	66.291	
7,200.00	7,153.46	7,192.01	7,167.46	26.31	25.32	88.80	-143.30	2,873.52	3,309.97	3,259.34	50.63	65.379	
7,300.00	7,253.46	7,292.01	7,267.46	26.65	25.67	88.80	-143.30	2,873.52	3,309.97	3,258.64	51.32	64.491	
7,400.00	7,353.46	7,392.01	7,367.46	26.98	26.02	88.80	-143.30	2,873.52	3,309.97	3,257.95	52.02	63.626	
7,500.00	7,453.46	7,492.01	7,467.46	27.32	26.37	88.80	-143.30	2,873.52	3,309.97	3,257.25	52.72	62.783	
7,600.00	7,553.46	7,592.01	7,567.46	27.66	26.72	88.80	-143.30	2,873.52	3,309.97	3,256.55	53.42	61.962	
7,700.00	7,653.46	7,692.01	7,667.46	28.00	27.07	88.80	-143.30	2,873.52	3,309.97	3,255.85	54.12	61.162	
7,800.00	7,753.46	7,792.01	7,767.46	28.34	27.42	88.80	-143.30	2,873.52	3,309.97	3,255.15	54.82	60.381	
7,900.00	7,853.46	7,892.01	7,867.46	28.68	27.77	88.80	-143.30	2,873.52	3,309.97	3,254.45	55.52	59.620	
8,000.00	7,953.46	7,992.01	7,967.46	29.02	28.13	88.80	-143.30	2,873.52	3,309.97	3,253.75	56.22	58.877	
8,100.00	8,053.46	8,092.01	8,067.46	29.36	28.48	88.80	-143.30	2,873.52	3,309.97	3,253.05	56.92	58.152	
8,200.00	8,153.46	8,192.01	8,167.46	29.71	28.83	88.80	-143.30	2,873.52	3,309.97	3,252.35	57.62	57.445	
8,300.00	8,253.46	8,292.01	8,267.46	30.05	29.18	88.80	-143.30	2,873.52	3,309.97	3,251.65	58.32	56.754	
8,400.00	8,353.46	8,392.01	8,367.46	30.39	29.53	88.80	-143.30	2,873.52	3,309.97	3,250.94	59.02	56.079	
8,500.00	8,453.46	8,492.01	8,467.46	30.73	29.88	88.80	-143.30	2,873.52	3,309.97	3,250.24	59.73	55.419	
8,600.00	8,553.46	8,592.01	8,567.46	31.08	30.24	88.80	-143.30	2,873.52	3,309.97	3,249.54	60.43	54.775	
8,700.00	8,653.46	8,692.01	8,667.46	31.42	30.59	88.80	-143.30	2,873.52	3,309.97	3,248.84	61.13	54.145	
8,800.00	8,753.46	8,792.01	8,767.46	31.76	30.94	88.80	-143.30	2,873.52	3,309.97	3,248.13	61.83	53.529	
8,900.00	8,853.46	8,892.01	8,867.46	32.11	31.29	88.80	-143.30	2,873.52	3,309.97	3,247.43	62.54	52.927	
9,000.00	8,953.46	8,992.01	8,967.46	32.45	31.65	88.80	-143.30	2,873.52	3,309.97	3,246.73	63.24	52.338	
9,005.97	8,959.42	8,997.97	8,973.42	32.47	31.67	88.80	-143.30	2,873.52	3,309.97	3,246.68	63.28	52.303	
9,100.00	9,053.46	9,090.14	9,065.58	32.80	31.99	88.80	-142.86	2,873.52	3,309.97	3,246.04	63.94	51.768	
9,200.00	9,153.46	9,181.04	9,155.74	33.14	32.29	88.61	-132.11	2,873.45	3,310.17	3,245.59	64.58	51.255	
9,300.00	9,253.46	9,266.53	9,238.01	33.49	32.55	88.21	-109.11	2,873.30	3,310.76	3,245.59	65.17	50.798	
9,400.00	9,353.46	9,343.75	9,308.63	33.83	32.75	87.67	-78.03	2,873.09	3,312.06	3,246.35	65.71	50.403	
9,500.00	9,453.46	9,411.46	9,366.64	34.18	32.92	87.07	-43.18	2,872.86	3,314.44	3,248.25	66.19	50.072	
9,600.00	9,553.46	9,469.78	9,413.01	34.53	33.06	86.46	-7.85	2,872.63	3,318.26	3,251.64	66.63	49.804	
9,700.00	9,653.46	9,519.56	9,449.57	34.87	33.17	85.88	25.90	2,872.40	3,323.85	3,256.84	67.01	49.603	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 403H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,753.46	9,561.94	9,478.30	35.22	33.26	85.34	57.05	2,872.20	3,331.45	3,264.10	67.34	49.469	
9,900.00	9,853.46	9,600.00	9,502.07	35.57	33.35	84.83	86.76	2,872.00	3,341.26	3,273.62	67.64	49.398	
9,955.59	9,909.05	9,615.87	9,511.39	35.76	33.38	84.61	99.60	2,871.91	3,347.73	3,279.96	67.77	49.397	
10,000.00	9,953.41	9,629.76	9,519.25	35.91	33.41	84.24	111.05	2,871.84	3,353.27	3,285.39	67.87	49.404	
10,050.00	10,003.03	9,650.00	9,530.21	36.08	33.46	83.34	128.07	2,871.72	3,359.65	3,291.66	67.99	49.414	
10,100.00	10,051.93	9,650.00	9,530.21	36.23	33.46	82.69	128.07	2,871.72	3,366.15	3,298.12	68.02	49.484	
10,150.00	10,099.75	9,680.06	9,545.35	36.38	33.53	81.69	154.04	2,871.55	3,372.54	3,304.38	68.15	49.485	
10,200.00	10,146.11	9,700.00	9,554.64	36.52	33.57	80.84	171.68	2,871.44	3,378.89	3,310.65	68.24	49.518	
10,250.00	10,190.67	9,715.78	9,561.55	36.64	33.61	80.07	185.86	2,871.34	3,385.07	3,316.77	68.30	49.564	
10,300.00	10,233.09	9,734.12	9,569.09	36.75	33.65	79.31	202.59	2,871.23	3,391.02	3,322.66	68.36	49.605	
10,350.00	10,273.04	9,750.00	9,575.17	36.85	33.69	78.62	217.25	2,871.13	3,396.66	3,328.25	68.41	49.650	
10,400.00	10,310.22	9,771.57	9,582.79	36.94	33.74	77.93	237.42	2,871.00	3,401.92	3,333.44	68.49	49.674	
10,450.00	10,344.35	9,800.00	9,591.66	37.01	33.81	77.27	264.43	2,870.82	3,406.79	3,338.21	68.58	49.674	
10,500.00	10,375.16	9,800.00	9,591.66	37.07	33.81	76.84	264.43	2,870.82	3,411.15	3,342.57	68.59	49.734	
10,550.00	10,402.43	9,829.14	9,599.35	37.11	33.89	76.31	292.53	2,870.63	3,414.94	3,346.24	68.70	49.706	
10,600.00	10,425.94	9,850.00	9,603.97	37.15	33.94	75.91	312.88	2,870.50	3,418.19	3,349.40	68.80	49.685	
10,650.00	10,445.52	9,868.13	9,607.39	37.19	33.99	75.59	330.68	2,870.38	3,420.84	3,351.94	68.90	49.651	
10,700.00	10,461.01	9,900.00	9,612.02	37.23	34.08	75.32	362.21	2,870.17	3,422.90	3,353.84	69.06	49.567	
10,750.00	10,472.31	9,900.00	9,612.02	37.30	34.08	75.19	362.21	2,870.17	3,424.21	3,355.08	69.13	49.533	
10,800.00	10,479.31	9,927.09	9,614.57	37.41	34.15	75.10	389.17	2,869.99	3,424.87	3,355.56	69.31	49.416	
10,850.00	10,481.98	9,950.00	9,615.73	37.55	34.21	75.10	412.05	2,869.84	3,424.87	3,355.38	69.49	49.288	
10,858.49	10,482.00	9,950.00	9,615.73	37.57	34.21	75.11	412.05	2,869.84	3,424.80	3,355.29	69.51	49.272	
10,900.00	10,481.79	9,968.09	9,616.00	37.70	34.27	75.11	430.14	2,869.72	3,424.57	3,354.90	69.67	49.154	
11,000.00	10,481.28	10,064.04	9,615.91	38.06	34.59	75.12	526.08	2,869.09	3,424.46	3,354.16	70.31	48.706	
11,100.00	10,480.78	10,164.03	9,615.83	38.49	34.99	75.13	626.08	2,868.42	3,424.36	3,353.26	71.09	48.167	
11,200.00	10,480.27	10,264.02	9,615.74	38.98	35.46	75.13	726.07	2,867.76	3,424.25	3,352.24	72.01	47.551	
11,300.00	10,479.77	10,364.02	9,615.65	39.53	36.01	75.14	826.06	2,867.10	3,424.14	3,351.08	73.06	46.865	
11,400.00	10,479.26	10,464.01	9,615.56	40.14	36.62	75.15	926.05	2,866.43	3,424.04	3,349.80	74.24	46.121	
11,500.00	10,478.76	10,564.00	9,615.47	40.81	37.29	75.15	1,026.04	2,865.77	3,423.93	3,348.40	75.54	45.327	
11,600.00	10,478.25	10,663.99	9,615.38	41.54	38.02	75.16	1,126.03	2,865.11	3,423.83	3,346.88	76.95	44.495	
11,700.00	10,477.75	10,763.99	9,615.29	42.31	38.82	75.17	1,226.02	2,864.45	3,423.72	3,345.26	78.47	43.633	
11,800.00	10,477.24	10,863.98	9,615.21	43.14	39.66	75.17	1,326.01	2,863.78	3,423.62	3,343.53	80.09	42.750	
11,900.00	10,476.74	10,963.97	9,615.12	44.01	40.55	75.18	1,426.00	2,863.12	3,423.51	3,341.71	81.80	41.852	
12,000.00	10,476.23	11,063.96	9,615.03	44.92	41.50	75.19	1,525.99	2,862.46	3,423.41	3,339.81	83.60	40.948	
12,100.00	10,475.73	11,163.96	9,614.94	45.88	42.48	75.19	1,625.98	2,861.80	3,423.31	3,337.81	85.49	40.042	
12,200.00	10,475.22	11,263.95	9,614.84	46.87	43.51	75.20	1,725.97	2,861.14	3,423.20	3,335.74	87.46	39.141	
12,300.00	10,474.72	11,363.94	9,614.75	47.90	44.57	75.21	1,825.96	2,860.48	3,423.10	3,333.60	89.50	38.247	
12,400.00	10,474.22	11,463.93	9,614.66	48.97	45.67	75.21	1,925.95	2,859.82	3,423.00	3,331.39	91.61	37.366	
12,500.00	10,473.71	11,563.93	9,614.57	50.06	46.80	75.22	2,025.94	2,859.15	3,422.90	3,329.12	93.78	36.499	
12,600.00	10,473.21	11,663.92	9,614.48	51.19	47.97	75.23	2,125.93	2,858.49	3,422.80	3,326.78	96.01	35.650	
12,700.00	10,472.70	11,763.91	9,614.39	52.34	49.16	75.23	2,225.92	2,857.83	3,422.69	3,324.40	98.30	34.820	
12,800.00	10,472.20	11,863.90	9,614.30	53.52	50.37	75.24	2,325.91	2,857.17	3,422.59	3,321.96	100.64	34.010	
12,900.00	10,471.70	11,963.90	9,614.20	54.73	51.61	75.25	2,425.90	2,856.51	3,422.49	3,319.47	103.02	33.221	
13,000.00	10,471.19	12,063.89	9,614.11	55.96	52.88	75.25	2,525.89	2,855.85	3,422.39	3,316.94	105.45	32.455	
13,100.00	10,470.69	12,163.88	9,614.02	57.21	54.16	75.26	2,625.88	2,855.19	3,422.29	3,314.37	107.92	31.711	
13,200.00	10,470.19	12,263.87	9,613.93	58.48	55.47	75.27	2,725.87	2,854.53	3,422.19	3,311.76	110.43	30.989	
13,300.00	10,469.68	12,363.87	9,613.83	59.77	56.79	75.27	2,825.86	2,853.87	3,422.09	3,309.11	112.98	30.289	
13,400.00	10,469.18	12,463.86	9,613.74	61.07	58.13	75.28	2,925.85	2,853.21	3,422.00	3,306.43	115.56	29.612	
13,500.00	10,468.68	12,563.85	9,613.64	62.40	59.49	75.29	3,025.84	2,852.55	3,421.90	3,303.72	118.18	28.956	
13,600.00	10,468.18	12,663.84	9,613.55	63.73	60.86	75.29	3,125.83	2,851.89	3,421.80	3,300.98	120.82	28.322	
13,700.00	10,467.67	12,763.84	9,613.46	65.09	62.25	75.30	3,225.82	2,851.23	3,421.70	3,298.21	123.49	27.708	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 403H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	10,467.17	12,863.83	9,613.36	66.46	63.65	75.31	3,325.81	2,850.57	3,421.61	3,295.42	126.19	27.115	
13,900.00	10,466.67	12,963.82	9,613.27	67.83	65.06	75.31	3,425.80	2,849.91	3,421.51	3,292.60	128.91	26.542	
14,000.00	10,466.17	13,063.81	9,613.17	69.23	66.48	75.32	3,525.79	2,849.25	3,421.41	3,289.76	131.66	25.987	
14,100.00	10,465.67	13,163.81	9,613.08	70.63	67.91	75.33	3,625.78	2,848.59	3,421.32	3,286.89	134.42	25.452	
14,200.00	10,465.17	13,263.80	9,612.98	72.04	69.35	75.33	3,725.77	2,847.93	3,421.22	3,284.01	137.21	24.935	
14,300.00	10,464.66	13,363.79	9,612.88	73.47	70.80	75.34	3,825.76	2,847.28	3,421.12	3,281.11	140.01	24.435	
14,400.00	10,464.16	13,463.78	9,612.79	74.90	72.26	75.35	3,925.76	2,846.62	3,421.03	3,278.20	142.83	23.951	
14,500.00	10,463.66	13,563.78	9,612.69	76.34	73.73	75.35	4,025.75	2,845.96	3,420.93	3,275.26	145.67	23.483	
14,600.00	10,463.16	13,663.77	9,612.59	77.80	75.21	75.36	4,125.74	2,845.30	3,420.84	3,272.31	148.53	23.031	
14,700.00	10,462.66	13,763.76	9,612.50	79.26	76.69	75.37	4,225.73	2,844.64	3,420.75	3,269.34	151.40	22.594	
14,800.00	10,462.16	13,863.75	9,612.40	80.72	78.18	75.37	4,325.72	2,843.98	3,420.65	3,266.37	154.29	22.171	
14,900.00	10,461.66	13,963.75	9,612.30	82.20	79.68	75.38	4,425.71	2,843.33	3,420.56	3,263.38	157.18	21.762	
15,000.00	10,461.16	14,063.74	9,612.20	83.68	81.19	75.39	4,525.70	2,842.67	3,420.47	3,260.37	160.09	21.365	
15,100.00	10,460.66	14,163.73	9,612.11	85.16	82.69	75.39	4,625.69	2,842.01	3,420.37	3,257.36	163.02	20.982	
15,200.00	10,460.16	14,263.73	9,612.01	86.66	84.21	75.40	4,725.68	2,841.35	3,420.28	3,254.33	165.95	20.610	
15,300.00	10,459.66	14,363.72	9,611.91	88.16	85.73	75.41	4,825.67	2,840.70	3,420.19	3,251.30	168.89	20.251	
15,400.00	10,459.16	14,463.71	9,611.81	89.66	87.25	75.41	4,925.66	2,840.04	3,420.10	3,248.25	171.85	19.902	
15,500.00	10,458.66	14,563.70	9,611.71	91.17	88.78	75.42	5,025.65	2,839.38	3,420.01	3,245.19	174.81	19.564	
15,600.00	10,458.16	14,663.70	9,611.61	92.69	90.32	75.43	5,125.64	2,838.72	3,419.92	3,242.13	177.79	19.236	
15,700.00	10,457.66	14,763.69	9,611.51	94.21	91.86	75.43	5,225.63	2,838.07	3,419.83	3,239.06	180.77	18.918	
15,800.00	10,457.16	14,863.68	9,611.41	95.73	93.40	75.44	5,325.62	2,837.41	3,419.74	3,235.97	183.76	18.610	
15,900.00	10,456.66	14,963.67	9,611.31	97.26	94.95	75.45	5,425.61	2,836.75	3,419.65	3,232.88	186.76	18.310	
16,000.00	10,456.16	15,063.67	9,611.21	98.79	96.50	75.45	5,525.60	2,836.10	3,419.56	3,229.79	189.77	18.020	
16,100.00	10,455.66	15,163.66	9,611.11	100.33	98.05	75.46	5,625.59	2,835.44	3,419.47	3,226.69	192.78	17.738	
16,200.00	10,455.16	15,263.65	9,611.01	101.87	99.61	75.47	5,725.58	2,834.78	3,419.38	3,223.58	195.80	17.464	
16,300.00	10,454.67	15,363.64	9,610.91	103.41	101.17	75.47	5,825.57	2,834.13	3,419.29	3,220.46	198.83	17.197	
16,400.00	10,454.17	15,463.64	9,610.81	104.96	102.73	75.48	5,925.56	2,833.47	3,419.20	3,217.34	201.86	16.938	
16,500.00	10,453.67	15,563.63	9,610.70	106.51	104.30	75.48	6,025.55	2,832.82	3,419.12	3,214.22	204.90	16.687	
16,600.00	10,453.17	15,663.62	9,610.60	108.07	105.86	75.49	6,125.54	2,832.16	3,419.03	3,211.09	207.94	16.442	
16,700.00	10,452.67	15,763.61	9,610.50	109.62	107.44	75.50	6,225.53	2,831.50	3,418.94	3,207.95	210.99	16.204	
16,800.00	10,452.17	15,863.61	9,610.40	111.18	109.01	75.50	6,325.52	2,830.85	3,418.86	3,204.81	214.05	15.972	
16,900.00	10,451.68	15,963.60	9,610.30	112.74	110.58	75.51	6,425.52	2,830.19	3,418.77	3,201.66	217.11	15.747	
17,000.00	10,451.18	16,063.59	9,610.19	114.31	112.16	75.52	6,525.51	2,829.54	3,418.68	3,198.51	220.18	15.527	
17,100.00	10,450.68	16,163.58	9,610.09	115.88	113.74	75.52	6,625.50	2,828.88	3,418.60	3,195.35	223.25	15.313	
17,200.00	10,450.18	16,263.58	9,609.98	117.45	115.33	75.53	6,725.49	2,828.23	3,418.51	3,192.19	226.32	15.105	
17,300.00	10,449.69	16,363.57	9,609.88	119.02	116.91	75.54	6,825.48	2,827.57	3,418.43	3,189.03	229.40	14.902	
17,400.00	10,449.19	16,463.56	9,609.78	120.60	118.50	75.54	6,925.47	2,826.92	3,418.34	3,185.86	232.48	14.704	
17,500.00	10,448.69	16,563.56	9,609.67	122.17	120.09	75.55	7,025.46	2,826.26	3,418.26	3,182.69	235.57	14.511	
17,600.00	10,448.20	16,663.55	9,609.57	123.75	121.68	75.56	7,125.45	2,825.61	3,418.18	3,179.52	238.66	14.322	
17,700.00	10,447.70	16,763.54	9,609.46	125.33	123.27	75.56	7,225.44	2,824.96	3,418.09	3,176.34	241.75	14.139	
17,800.00	10,447.20	16,863.53	9,609.36	126.91	124.86	75.57	7,325.43	2,824.30	3,418.01	3,173.16	244.85	13.960	
17,900.00	10,446.71	16,963.53	9,609.25	128.50	126.46	75.57	7,425.42	2,823.65	3,417.93	3,169.98	247.95	13.785	
18,000.00	10,446.21	17,063.52	9,609.15	130.09	128.06	75.58	7,525.41	2,822.99	3,417.85	3,166.79	251.05	13.614	
18,100.00	10,445.71	17,163.51	9,609.04	131.67	129.65	75.59	7,625.40	2,822.34	3,417.76	3,163.60	254.16	13.447	
18,200.00	10,445.22	17,263.50	9,608.93	133.26	131.25	75.59	7,725.39	2,821.69	3,417.68	3,160.41	257.27	13.284	
18,300.00	10,444.72	17,363.50	9,608.83	134.86	132.86	75.60	7,825.38	2,821.03	3,417.60	3,157.22	260.39	13.125	
18,400.00	10,444.23	17,463.49	9,608.72	136.45	134.46	75.61	7,925.37	2,820.38	3,417.52	3,154.02	263.50	12.970	
18,500.00	10,443.73	17,563.48	9,608.61	138.04	136.06	75.61	8,025.36	2,819.73	3,417.44	3,150.82	266.62	12.818	
18,600.00	10,443.24	17,663.47	9,608.51	139.64	137.67	75.62	8,125.35	2,819.07	3,417.36	3,147.62	269.74	12.669	
18,700.00	10,442.74	17,763.47	9,608.40	141.24	139.27	75.63	8,225.34	2,818.42	3,417.28	3,144.41	272.87	12.524	
18,800.00	10,442.25	17,863.46	9,608.29	142.84	140.88	75.63	8,325.33	2,817.77	3,417.20	3,141.21	275.99	12.382	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 403H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	10,441.75	17,963.45	9,608.18	144.44	142.49	75.64	8,425.32	2,817.11	3,417.12	3,138.00	279.12	12.242	
19,000.00	10,441.26	18,063.45	9,608.08	146.04	144.10	75.65	8,525.32	2,816.46	3,417.04	3,134.79	282.25	12.106	
19,100.00	10,440.76	18,163.44	9,607.97	147.64	145.71	75.65	8,625.31	2,815.81	3,416.97	3,131.58	285.38	11.973	
19,200.00	10,440.27	18,263.43	9,607.86	149.24	147.32	75.66	8,725.30	2,815.16	3,416.89	3,128.37	288.52	11.843	
19,300.00	10,439.77	18,363.42	9,607.75	150.85	148.94	75.66	8,825.29	2,814.50	3,416.81	3,125.15	291.66	11.715	
19,400.00	10,439.28	18,463.42	9,607.64	152.45	150.55	75.67	8,925.28	2,813.85	3,416.73	3,121.94	294.80	11.590	
19,500.00	10,438.78	18,563.41	9,607.53	154.06	152.16	75.68	9,025.27	2,813.20	3,416.66	3,118.72	297.94	11.468	
19,600.00	10,438.29	18,663.40	9,607.42	155.67	153.78	75.68	9,125.26	2,812.55	3,416.58	3,115.50	301.08	11.348	
19,700.00	10,437.80	18,763.39	9,607.31	157.28	155.40	75.69	9,225.25	2,811.90	3,416.50	3,112.28	304.22	11.230	
19,800.00	10,437.30	18,863.39	9,607.20	158.89	157.01	75.70	9,325.24	2,811.25	3,416.43	3,109.06	307.37	11.115	
19,900.00	10,436.81	18,963.38	9,607.09	160.50	158.63	75.70	9,425.23	2,810.59	3,416.35	3,105.84	310.52	11.002	
20,000.00	10,436.32	19,063.37	9,606.98	162.11	160.25	75.71	9,525.22	2,809.94	3,416.28	3,102.61	313.67	10.891	
20,100.00	10,435.82	19,163.37	9,606.87	163.72	161.87	75.71	9,625.21	2,809.29	3,416.20	3,099.38	316.82	10.783	
20,200.00	10,435.33	19,263.36	9,606.75	165.34	163.49	75.72	9,725.20	2,808.64	3,416.13	3,096.16	319.97	10.676	
20,300.00	10,434.84	19,363.35	9,606.64	166.95	165.11	75.73	9,825.19	2,807.99	3,416.05	3,092.93	323.13	10.572	
20,400.00	10,434.34	19,463.34	9,606.53	168.57	166.73	75.73	9,925.18	2,807.34	3,415.98	3,089.70	326.28	10.469	
20,500.00	10,433.85	19,563.34	9,606.42	170.18	168.35	75.74	10,025.17	2,806.69	3,415.91	3,086.47	329.44	10.369	
20,600.00	10,433.36	19,663.33	9,606.31	171.80	169.98	75.75	10,125.16	2,806.04	3,415.83	3,083.24	332.60	10.270	
20,700.00	10,432.86	19,763.32	9,606.19	173.42	171.60	75.75	10,225.15	2,805.39	3,415.76	3,080.00	335.76	10.173	
20,800.00	10,432.37	19,863.31	9,606.08	175.04	173.23	75.76	10,325.14	2,804.74	3,415.69	3,076.77	338.92	10.078	
20,872.62	10,432.02	19,934.24	9,606.00	176.21	174.38	75.76	10,396.07	2,804.28	3,415.64	3,074.45	341.19	10.011	
20,875.64	10,432.00	19,934.24	9,606.00	176.26	174.38	75.76	10,396.07	2,804.28	3,415.64	3,074.41	341.23	10.010	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 501H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	14.00	14.00	0.00	0.02	87.34	131.41	2,828.82	2,831.87				
100.00	100.00	114.00	114.00	0.14	0.18	87.34	131.41	2,828.82	2,831.87	2,831.55	0.32	8,851.370	
200.00	200.00	214.00	214.00	0.49	0.54	87.34	131.41	2,828.82	2,831.87	2,830.84	1.04	2,731.151	
300.00	300.00	314.00	314.00	0.85	0.90	87.34	131.41	2,828.82	2,831.87	2,830.12	1.75	1,614.687	
400.00	400.00	414.00	414.00	1.21	1.26	87.34	131.41	2,828.82	2,831.87	2,829.40	2.47	1,146.152	
500.00	500.00	514.00	514.00	1.57	1.62	87.34	131.41	2,828.82	2,831.87	2,828.69	3.19	888.373	
600.00	600.00	614.00	614.00	1.93	1.98	87.34	131.41	2,828.82	2,831.87	2,827.97	3.90	725.257	
700.00	700.00	714.00	714.00	2.29	2.34	87.34	131.41	2,828.82	2,831.87	2,827.25	4.62	612.748	
800.00	800.00	814.00	814.00	2.64	2.69	87.34	131.41	2,828.82	2,831.87	2,826.54	5.34	530.459	
900.00	900.00	914.00	914.00	3.00	3.05	87.34	131.41	2,828.82	2,831.87	2,825.82	6.06	467.655	
1,000.00	1,000.00	1,014.00	1,014.00	3.36	3.41	87.34	131.41	2,828.82	2,831.87	2,825.10	6.77	418.148	
1,100.00	1,100.00	1,114.00	1,114.00	3.72	3.77	87.34	131.41	2,828.82	2,831.87	2,824.38	7.49	378.119	
1,200.00	1,200.00	1,214.00	1,214.00	4.08	4.13	87.34	131.41	2,828.82	2,831.87	2,823.67	8.21	345.085	
1,300.00	1,300.00	1,314.00	1,314.00	4.44	4.49	87.34	131.41	2,828.82	2,831.87	2,822.95	8.92	317.359	
1,400.00	1,400.00	1,414.00	1,414.00	4.80	4.84	87.34	131.41	2,828.82	2,831.87	2,822.23	9.64	293.757	
1,500.00	1,500.00	1,514.00	1,514.00	5.15	5.20	87.34	131.41	2,828.82	2,831.87	2,821.52	10.36	273.422	
1,600.00	1,600.00	1,614.00	1,614.00	5.51	5.56	87.34	131.41	2,828.82	2,831.87	2,820.80	11.07	255.721	
1,700.00	1,700.00	1,714.00	1,714.00	5.87	5.92	87.34	131.41	2,828.82	2,831.87	2,820.08	11.79	240.172	
1,800.00	1,800.00	1,814.00	1,814.00	6.23	6.28	87.34	131.41	2,828.82	2,831.87	2,819.37	12.51	226.406	
1,900.00	1,900.00	1,914.00	1,914.00	6.59	6.64	87.34	131.41	2,828.82	2,831.87	2,818.65	13.22	214.132	
1,911.24	1,911.24	1,925.24	1,925.24	6.63	6.68	87.34	131.41	2,828.82	2,831.87	2,818.57	13.31	212.835 CC	
2,000.00	2,000.00	2,012.84	2,012.84	6.95	6.99	87.34	131.38	2,828.83	2,831.88	2,817.94	13.94	203.216	
2,100.00	2,100.00	2,104.52	2,104.50	7.30	7.30	87.38	129.52	2,829.09	2,832.06	2,817.46	14.60	193.916	
2,200.00	2,200.00	2,200.00	2,199.84	7.66	7.61	87.48	124.49	2,829.78	2,832.55	2,817.28	15.27	185.472 ES	
2,300.00	2,299.98	2,287.09	2,286.61	8.01	7.90	-156.37	117.17	2,830.80	2,834.95	2,819.05	15.90	178.270	
2,400.00	2,399.84	2,377.66	2,376.56	8.34	8.20	-156.15	106.78	2,832.24	2,840.88	2,824.34	16.54	171.782	
2,500.00	2,499.45	2,467.51	2,465.44	8.68	8.50	-155.87	93.70	2,834.05	2,850.34	2,833.16	17.18	165.923	
2,600.00	2,598.70	2,556.46	2,552.97	9.03	8.82	-155.54	78.04	2,836.22	2,863.33	2,845.50	17.83	160.623	
2,700.00	2,697.47	2,649.38	2,643.92	9.38	9.15	-155.14	59.23	2,838.83	2,879.81	2,861.31	18.50	155.662	
2,800.00	2,795.62	2,746.62	2,739.04	9.75	9.52	-154.72	39.20	2,841.61	2,899.51	2,880.30	19.20	150.986	
2,900.00	2,893.44	2,843.64	2,833.94	10.13	9.89	-154.48	19.22	2,844.38	2,920.80	2,900.88	19.92	146.641	
3,000.00	2,991.25	2,940.66	2,928.84	10.51	10.27	-154.26	-0.76	2,847.15	2,942.13	2,921.49	20.64	142.520	
3,100.00	3,089.07	3,037.68	3,023.74	10.91	10.66	-154.03	-20.74	2,849.92	2,963.52	2,942.13	21.38	138.604	
3,200.00	3,186.88	3,134.70	3,118.64	11.31	11.06	-153.81	-40.72	2,852.69	2,984.94	2,962.81	22.13	134.885	
3,300.00	3,284.70	3,231.72	3,213.54	11.72	11.46	-153.59	-60.70	2,855.46	3,006.41	2,983.52	22.89	131.355	
3,400.00	3,382.51	3,328.74	3,308.44	12.14	11.87	-153.38	-80.68	2,858.24	3,027.92	3,004.26	23.65	128.005	
3,500.00	3,480.33	3,425.76	3,403.34	12.56	12.28	-153.16	-100.66	2,861.01	3,049.47	3,025.04	24.43	124.826	
3,600.00	3,578.14	3,522.78	3,498.24	12.99	12.70	-152.95	-120.64	2,863.78	3,071.06	3,045.84	25.21	121.810	
3,700.00	3,675.96	3,628.59	3,601.84	13.42	13.15	-152.74	-141.94	2,866.73	3,092.62	3,066.58	26.04	118.771	
3,800.00	3,773.77	3,745.24	3,716.80	13.86	13.64	-152.58	-161.51	2,869.44	3,113.70	3,086.80	26.90	115.734	
3,900.00	3,871.59	3,862.70	3,833.27	14.30	14.11	-152.51	-176.51	2,871.52	3,134.18	3,106.43	27.75	112.932	
4,000.00	3,969.40	3,980.57	3,950.67	14.75	14.56	-152.53	-186.80	2,872.95	3,154.05	3,125.47	28.58	110.356	
4,100.00	4,067.22	4,098.46	4,068.42	15.19	14.98	-152.63	-192.30	2,873.71	3,173.30	3,143.91	29.38	107.995	
4,200.00	4,165.03	4,209.08	4,179.03	15.64	15.34	-152.81	-193.30	2,873.85	3,191.99	3,161.86	30.13	105.932	
4,300.00	4,262.84	4,306.89	4,276.84	16.10	15.66	-152.98	-193.30	2,873.85	3,210.58	3,179.75	30.83	104.136	
4,400.00	4,360.66	4,404.71	4,374.66	16.55	15.98	-153.14	-193.30	2,873.85	3,229.20	3,197.67	31.53	102.413	
4,500.00	4,458.47	4,502.52	4,472.47	17.01	16.30	-153.31	-193.30	2,873.85	3,247.84	3,215.61	32.23	100.759	
4,529.32	4,487.15	4,531.20	4,501.15	17.14	16.40	-153.36	-193.30	2,873.85	3,253.31	3,220.87	32.44	100.287	
4,600.00	4,556.46	4,600.51	4,570.46	17.46	16.62	-153.58	-193.30	2,873.85	3,265.75	3,232.81	32.94	99.152	
4,700.00	4,655.06	4,699.11	4,669.06	17.90	16.95	-153.84	-193.30	2,873.85	3,280.72	3,247.08	33.64	97.531	
4,800.00	4,754.18	4,798.23	4,768.18	18.31	17.28	-154.05	-193.30	2,873.85	3,292.60	3,258.26	34.34	95.895	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 501H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	4,897.75	4,867.70	18.69	17.61	-154.20	-193.30	2,873.85	3,301.36	3,266.33	35.03	94.246	
5,000.00	4,953.50	4,997.55	4,967.50	19.05	17.94	-154.29	-193.30	2,873.85	3,307.00	3,271.28	35.72	92.588	
5,100.00	5,053.46	5,097.51	5,067.46	19.39	18.28	-154.34	-193.30	2,873.85	3,309.49	3,273.10	36.40	90.922	
5,129.32	5,082.78	5,126.82	5,096.78	19.49	18.38	89.67	-193.30	2,873.85	3,309.63	3,273.03	36.60	90.434	
5,200.00	5,153.46	5,197.51	5,167.46	19.71	18.61	89.67	-193.30	2,873.85	3,309.63	3,272.56	37.07	89.276	
5,300.00	5,253.46	5,297.51	5,267.46	20.04	18.95	89.67	-193.30	2,873.85	3,309.63	3,271.88	37.75	87.683	
5,400.00	5,353.46	5,397.51	5,367.46	20.36	19.29	89.67	-193.30	2,873.85	3,309.63	3,271.21	38.42	86.143	
5,500.00	5,453.46	5,497.51	5,467.46	20.68	19.62	89.67	-193.30	2,873.85	3,309.63	3,270.53	39.10	84.653	
5,600.00	5,553.46	5,597.51	5,567.46	21.00	19.96	89.67	-193.30	2,873.85	3,309.63	3,269.86	39.77	83.210	
5,700.00	5,653.46	5,697.51	5,667.46	21.33	20.30	89.67	-193.30	2,873.85	3,309.63	3,269.18	40.45	81.814	
5,800.00	5,753.46	5,797.51	5,767.46	21.65	20.64	89.67	-193.30	2,873.85	3,309.63	3,268.50	41.13	80.460	
5,900.00	5,853.46	5,897.51	5,867.46	21.98	20.98	89.67	-193.30	2,873.85	3,309.63	3,267.81	41.82	79.149	
6,000.00	5,953.46	5,997.51	5,967.46	22.31	21.32	89.67	-193.30	2,873.85	3,309.63	3,267.13	42.50	77.877	
6,100.00	6,053.46	6,097.51	6,067.46	22.64	21.67	89.67	-193.30	2,873.85	3,309.63	3,266.45	43.18	76.644	
6,200.00	6,153.46	6,197.51	6,167.46	22.97	22.01	89.67	-193.30	2,873.85	3,309.63	3,265.76	43.87	75.447	
6,300.00	6,253.46	6,297.51	6,267.46	23.30	22.35	89.67	-193.30	2,873.85	3,309.63	3,265.08	44.55	74.286	
6,400.00	6,353.46	6,397.51	6,367.46	23.63	22.69	89.67	-193.30	2,873.85	3,309.63	3,264.39	45.24	73.158	
6,500.00	6,453.46	6,497.51	6,467.46	23.96	23.04	89.67	-193.30	2,873.85	3,309.63	3,263.70	45.93	72.062	
6,600.00	6,553.46	6,597.51	6,567.46	24.30	23.38	89.67	-193.30	2,873.85	3,309.63	3,263.01	46.62	70.997	
6,700.00	6,653.46	6,697.51	6,667.46	24.63	23.73	89.67	-193.30	2,873.85	3,309.63	3,262.32	47.31	69.962	
6,800.00	6,753.46	6,797.51	6,767.46	24.96	24.07	89.67	-193.30	2,873.85	3,309.63	3,261.63	48.00	68.956	
6,900.00	6,853.46	6,897.51	6,867.46	25.30	24.42	89.67	-193.30	2,873.85	3,309.63	3,260.94	48.69	67.977	
7,000.00	6,953.46	6,997.51	6,967.46	25.64	24.76	89.67	-193.30	2,873.85	3,309.63	3,260.25	49.38	67.025	
7,100.00	7,053.46	7,097.51	7,067.46	25.97	25.11	89.67	-193.30	2,873.85	3,309.63	3,259.56	50.07	66.098	
7,200.00	7,153.46	7,197.51	7,167.46	26.31	25.45	89.67	-193.30	2,873.85	3,309.63	3,258.87	50.76	65.195	
7,300.00	7,253.46	7,297.51	7,267.46	26.65	25.80	89.67	-193.30	2,873.85	3,309.63	3,258.17	51.46	64.316	
7,400.00	7,353.46	7,397.51	7,367.46	26.98	26.15	89.67	-193.30	2,873.85	3,309.63	3,257.48	52.15	63.460	
7,500.00	7,453.46	7,497.51	7,467.46	27.32	26.50	89.67	-193.30	2,873.85	3,309.63	3,256.78	52.85	62.625	
7,600.00	7,553.46	7,597.51	7,567.46	27.66	26.84	89.67	-193.30	2,873.85	3,309.63	3,256.09	53.54	61.811	
7,700.00	7,653.46	7,697.51	7,667.46	28.00	27.19	89.67	-193.30	2,873.85	3,309.63	3,255.39	54.24	61.018	
7,800.00	7,753.46	7,797.51	7,767.46	28.34	27.54	89.67	-193.30	2,873.85	3,309.63	3,254.69	54.94	60.244	
7,900.00	7,853.46	7,897.51	7,867.46	28.68	27.89	89.67	-193.30	2,873.85	3,309.63	3,254.00	55.63	59.489	
8,000.00	7,953.46	7,997.51	7,967.46	29.02	28.24	89.67	-193.30	2,873.85	3,309.63	3,253.30	56.33	58.752	
8,100.00	8,053.46	8,097.51	8,067.46	29.36	28.59	89.67	-193.30	2,873.85	3,309.63	3,252.60	57.03	58.033	
8,200.00	8,153.46	8,197.51	8,167.46	29.71	28.93	89.67	-193.30	2,873.85	3,309.63	3,251.90	57.73	57.330	
8,300.00	8,253.46	8,297.51	8,267.46	30.05	29.28	89.67	-193.30	2,873.85	3,309.63	3,251.20	58.43	56.644	
8,400.00	8,353.46	8,397.51	8,367.46	30.39	29.63	89.67	-193.30	2,873.85	3,309.63	3,250.50	59.13	55.974	
8,500.00	8,453.46	8,497.51	8,467.46	30.73	29.98	89.67	-193.30	2,873.85	3,309.63	3,249.80	59.83	55.319	
8,600.00	8,553.46	8,597.51	8,567.46	31.08	30.33	89.67	-193.30	2,873.85	3,309.63	3,249.10	60.53	54.679	
8,700.00	8,653.46	8,697.51	8,667.46	31.42	30.68	89.67	-193.30	2,873.85	3,309.63	3,248.40	61.23	54.053	
8,800.00	8,753.46	8,797.51	8,767.46	31.76	31.03	89.67	-193.30	2,873.85	3,309.63	3,247.70	61.93	53.441	
8,900.00	8,853.46	8,897.51	8,867.46	32.11	31.39	89.67	-193.30	2,873.85	3,309.63	3,247.00	62.63	52.843	
9,000.00	8,953.46	8,997.51	8,967.46	32.45	31.74	89.67	-193.30	2,873.85	3,309.63	3,246.30	63.33	52.257	
9,100.00	9,053.46	9,097.51	9,067.46	32.80	32.09	89.67	-193.30	2,873.85	3,309.63	3,245.59	64.04	51.684	
9,200.00	9,153.46	9,197.51	9,167.46	33.14	32.44	89.67	-193.30	2,873.85	3,309.63	3,244.89	64.74	51.123	
9,300.00	9,253.46	9,297.51	9,267.46	33.49	32.79	89.67	-193.30	2,873.85	3,309.63	3,244.19	65.44	50.574	
9,400.00	9,353.46	9,397.51	9,367.46	33.83	33.14	89.67	-193.30	2,873.85	3,309.63	3,243.49	66.14	50.037	
9,500.00	9,453.46	9,497.51	9,467.46	34.18	33.49	89.67	-193.30	2,873.85	3,309.63	3,242.78	66.85	49.510	
9,600.00	9,553.46	9,597.51	9,567.46	34.53	33.84	89.67	-193.30	2,873.85	3,309.63	3,242.08	67.55	48.994	
9,700.00	9,653.46	9,697.51	9,667.46	34.87	34.20	89.67	-193.30	2,873.85	3,309.63	3,241.37	68.26	48.489	
9,800.00	9,753.46	9,797.51	9,767.46	35.22	34.55	89.67	-193.30	2,873.85	3,309.63	3,240.67	68.96	47.994	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 501H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,853.46	9,897.51	9,867.46	35.57	34.90	89.67	-193.30	2,873.85	3,309.63	3,239.97	69.66	47.509	
9,955.59	9,909.05	9,953.10	9,923.05	35.76	35.10	89.67	-193.30	2,873.85	3,309.63	3,239.57	70.06	47.243	
10,000.00	9,953.41	9,997.46	9,967.41	35.91	35.25	90.08	-193.30	2,873.85	3,309.63	3,239.27	70.37	47.035	
10,050.00	10,003.03	10,047.82	10,017.72	36.08	35.43	90.15	-191.56	2,873.84	3,309.64	3,238.93	70.71	46.808	
10,100.00	10,051.93	10,098.61	10,068.12	36.23	35.59	90.23	-185.36	2,873.80	3,309.65	3,238.62	71.03	46.594	
10,150.00	10,099.75	10,149.79	10,118.15	36.38	35.75	90.30	-174.63	2,873.73	3,309.67	3,238.33	71.34	46.392	
10,200.00	10,146.11	10,201.38	10,167.39	36.52	35.90	90.37	-159.34	2,873.63	3,309.70	3,238.07	71.63	46.204	
10,250.00	10,190.67	10,253.35	10,215.42	36.64	36.04	90.44	-139.52	2,873.50	3,309.73	3,237.82	71.91	46.028	
10,300.00	10,233.09	10,305.70	10,261.78	36.75	36.16	90.50	-115.24	2,873.34	3,309.76	3,237.59	72.17	45.862	
10,350.00	10,273.04	10,358.42	10,306.03	36.85	36.29	90.56	-86.61	2,873.15	3,309.79	3,237.38	72.41	45.706	
10,400.00	10,310.22	10,411.50	10,347.73	36.94	36.40	90.62	-53.82	2,872.93	3,309.82	3,237.17	72.65	45.558	
10,450.00	10,344.35	10,464.90	10,386.45	37.01	36.51	90.67	-17.06	2,872.68	3,309.86	3,236.98	72.88	45.415	
10,500.00	10,375.16	10,518.61	10,421.77	37.07	36.62	90.72	23.37	2,872.42	3,309.89	3,236.79	73.11	45.276	
10,550.00	10,402.43	10,572.59	10,453.29	37.11	36.73	90.76	67.16	2,872.13	3,309.92	3,236.59	73.33	45.137	
10,600.00	10,425.94	10,626.81	10,480.67	37.15	36.83	90.80	113.94	2,871.82	3,309.95	3,236.39	73.56	44.999	
10,650.00	10,445.52	10,681.23	10,503.58	37.19	36.94	90.82	163.28	2,871.49	3,309.97	3,236.18	73.79	44.858	
10,700.00	10,461.01	10,735.81	10,521.76	37.23	37.06	90.84	214.72	2,871.15	3,309.99	3,235.96	74.03	44.714	
10,750.00	10,472.31	10,790.50	10,534.98	37.30	37.18	90.86	267.77	2,870.80	3,310.00	3,235.73	74.27	44.565	
10,800.00	10,479.31	10,845.27	10,543.09	37.41	37.30	90.87	321.91	2,870.44	3,310.01	3,235.48	74.53	44.412	
10,850.00	10,481.98	10,900.06	10,546.00	37.55	37.43	90.87	376.60	2,870.07	3,310.01	3,235.21	74.79	44.255	
10,857.87	10,482.00	10,908.39	10,545.99	37.57	37.45	90.87	384.93	2,870.02	3,310.01	3,235.17	74.84	44.230	
10,858.49	10,482.00	10,909.01	10,545.99	37.57	37.45	90.87	385.55	2,870.01	3,310.01	3,235.17	74.84	44.228	
10,900.00	10,481.79	10,950.52	10,545.82	37.70	37.56	90.87	427.06	2,869.74	3,310.01	3,234.93	75.08	44.089	
11,000.00	10,481.28	11,050.52	10,545.42	38.06	37.87	90.87	527.05	2,869.08	3,310.01	3,234.28	75.73	43.706	
11,100.00	10,480.78	11,150.51	10,545.02	38.49	38.25	90.87	627.05	2,868.41	3,310.01	3,233.48	76.53	43.253	
11,200.00	10,480.27	11,250.51	10,544.62	38.98	38.70	90.87	727.04	2,867.75	3,310.01	3,232.56	77.45	42.735	
11,300.00	10,479.77	11,350.50	10,544.22	39.53	39.21	90.87	827.03	2,867.09	3,310.02	3,231.51	78.51	42.160	
11,400.00	10,479.26	11,450.50	10,543.82	40.14	39.78	90.88	927.02	2,866.43	3,310.02	3,230.33	79.69	41.536	
11,500.00	10,478.76	11,550.49	10,543.41	40.81	40.41	90.88	1,027.02	2,865.76	3,310.02	3,229.03	80.99	40.870	
11,600.00	10,478.25	11,650.49	10,543.01	41.54	41.10	90.88	1,127.01	2,865.10	3,310.02	3,227.62	82.40	40.170	
11,700.00	10,477.75	11,750.49	10,542.61	42.31	41.85	90.88	1,227.00	2,864.44	3,310.03	3,226.11	83.92	39.444	
11,800.00	10,477.24	11,850.48	10,542.21	43.14	42.64	90.88	1,326.99	2,863.78	3,310.03	3,224.49	85.54	38.697	
11,900.00	10,476.74	11,950.48	10,541.81	44.01	43.49	90.88	1,426.99	2,863.11	3,310.03	3,222.78	87.25	37.936	
12,000.00	10,476.23	12,050.47	10,541.41	44.92	44.38	90.89	1,526.98	2,862.45	3,310.04	3,220.98	89.06	37.167	
12,100.00	10,475.73	12,150.47	10,541.01	45.88	45.31	90.89	1,626.97	2,861.79	3,310.04	3,219.09	90.95	36.395	
12,200.00	10,475.22	12,250.46	10,540.61	46.87	46.29	90.89	1,726.96	2,861.13	3,310.05	3,217.13	92.92	35.623	
12,300.00	10,474.72	12,350.46	10,540.21	47.90	47.30	90.89	1,826.96	2,860.47	3,310.05	3,215.09	94.96	34.856	
12,400.00	10,474.22	12,450.45	10,539.81	48.97	48.34	90.89	1,926.95	2,859.81	3,310.06	3,212.98	97.08	34.097	
12,500.00	10,473.71	12,550.45	10,539.41	50.06	49.42	90.89	2,026.94	2,859.15	3,310.06	3,210.80	99.26	33.348	
12,600.00	10,473.21	12,650.45	10,539.00	51.19	50.54	90.90	2,126.93	2,858.48	3,310.07	3,208.57	101.50	32.611	
12,700.00	10,472.70	12,750.44	10,538.60	52.34	51.68	90.90	2,226.93	2,857.82	3,310.07	3,206.27	103.80	31.889	
12,800.00	10,472.20	12,850.44	10,538.20	53.52	52.85	90.90	2,326.92	2,857.16	3,310.08	3,203.93	106.15	31.182	
12,900.00	10,471.70	12,950.43	10,537.80	54.73	54.04	90.90	2,426.91	2,856.50	3,310.09	3,201.53	108.56	30.492	
13,000.00	10,471.19	13,050.43	10,537.40	55.96	55.26	90.90	2,526.91	2,855.84	3,310.09	3,199.09	111.00	29.819	
13,100.00	10,470.69	13,150.42	10,537.00	57.21	56.50	90.91	2,626.90	2,855.18	3,310.10	3,196.60	113.50	29.164	
13,200.00	10,470.19	13,250.42	10,536.60	58.48	57.76	90.91	2,726.89	2,854.52	3,310.10	3,194.07	116.03	28.527	
13,300.00	10,469.68	13,350.41	10,536.20	59.77	59.04	90.91	2,826.88	2,853.86	3,310.11	3,191.51	118.61	27.909	
13,400.00	10,469.18	13,450.41	10,535.80	61.07	60.34	90.91	2,926.88	2,853.20	3,310.12	3,188.90	121.21	27.308	
13,500.00	10,468.68	13,550.41	10,535.40	62.40	61.65	90.91	3,026.87	2,852.54	3,310.13	3,186.27	123.86	26.725	
13,600.00	10,468.18	13,650.40	10,535.00	63.73	62.99	90.91	3,126.86	2,851.88	3,310.13	3,183.60	126.53	26.161	
13,700.00	10,467.67	13,750.40	10,534.60	65.09	64.33	90.92	3,226.85	2,851.22	3,310.14	3,180.91	129.23	25.614	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 501H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	10,467.17	13,850.39	10,534.20	66.46	65.69	90.92	3,326.85	2,850.56	3,310.15	3,178.18	131.97	25.083	
13,900.00	10,466.67	13,950.39	10,533.80	67.83	67.07	90.92	3,426.84	2,849.90	3,310.16	3,175.43	134.72	24.570	
14,000.00	10,466.17	14,050.38	10,533.40	69.23	68.45	90.92	3,526.83	2,849.24	3,310.17	3,172.66	137.50	24.073	
14,100.00	10,465.67	14,150.38	10,533.00	70.63	69.85	90.92	3,626.82	2,848.59	3,310.17	3,169.86	140.31	23.592	
14,200.00	10,465.17	14,250.38	10,532.60	72.04	71.26	90.92	3,726.82	2,847.93	3,310.18	3,167.05	143.14	23.126	
14,300.00	10,464.66	14,350.37	10,532.20	73.47	72.68	90.93	3,826.81	2,847.27	3,310.19	3,164.21	145.98	22.675	
14,400.00	10,464.16	14,450.37	10,531.80	74.90	74.11	90.93	3,926.80	2,846.61	3,310.20	3,161.35	148.85	22.239	
14,500.00	10,463.66	14,550.36	10,531.40	76.34	75.55	90.93	4,026.79	2,845.95	3,310.21	3,158.48	151.73	21.816	
14,600.00	10,463.16	14,650.36	10,531.00	77.80	77.00	90.93	4,126.79	2,845.29	3,310.22	3,155.58	154.64	21.407	
14,700.00	10,462.66	14,750.35	10,530.60	79.26	78.46	90.93	4,226.78	2,844.63	3,310.23	3,152.68	157.55	21.010	
14,800.00	10,462.16	14,850.35	10,530.20	80.72	79.92	90.94	4,326.77	2,843.98	3,310.24	3,149.75	160.49	20.626	
14,900.00	10,461.66	14,950.34	10,529.80	82.20	81.39	90.94	4,426.77	2,843.32	3,310.25	3,146.82	163.44	20.254	
15,000.00	10,461.16	15,050.34	10,529.40	83.68	82.87	90.94	4,526.76	2,842.66	3,310.26	3,143.87	166.40	19.894	
15,100.00	10,460.66	15,150.34	10,529.00	85.16	84.36	90.94	4,626.75	2,842.00	3,310.27	3,140.90	169.37	19.545	
15,200.00	10,460.16	15,250.33	10,528.60	86.66	85.85	90.94	4,726.74	2,841.35	3,310.28	3,137.93	172.36	19.206	
15,300.00	10,459.66	15,350.33	10,528.20	88.16	87.34	90.94	4,826.74	2,840.69	3,310.30	3,134.94	175.36	18.878	
15,400.00	10,459.16	15,450.32	10,527.80	89.66	88.85	90.95	4,926.73	2,840.03	3,310.31	3,131.94	178.37	18.559	
15,500.00	10,458.66	15,550.32	10,527.40	91.17	90.36	90.95	5,026.72	2,839.37	3,310.32	3,128.93	181.39	18.250	
15,600.00	10,458.16	15,650.31	10,527.00	92.69	91.87	90.95	5,126.71	2,838.72	3,310.33	3,125.91	184.42	17.950	
15,700.00	10,457.66	15,750.31	10,526.60	94.21	93.39	90.95	5,226.71	2,838.06	3,310.34	3,122.89	187.46	17.659	
15,800.00	10,457.16	15,850.31	10,526.20	95.73	94.91	90.95	5,326.70	2,837.40	3,310.36	3,119.85	190.50	17.377	
15,900.00	10,456.66	15,950.30	10,525.80	97.26	96.44	90.95	5,426.69	2,836.75	3,310.37	3,116.81	193.56	17.102	
16,000.00	10,456.16	16,050.30	10,525.40	98.79	97.97	90.96	5,526.68	2,836.09	3,310.38	3,113.75	196.63	16.836	
16,100.00	10,455.66	16,150.29	10,525.00	100.33	99.50	90.96	5,626.68	2,835.43	3,310.39	3,110.69	199.70	16.577	
16,200.00	10,455.16	16,250.29	10,524.60	101.87	101.04	90.96	5,726.67	2,834.78	3,310.41	3,107.62	202.78	16.325	
16,300.00	10,454.67	16,350.28	10,524.20	103.41	102.59	90.96	5,826.66	2,834.12	3,310.42	3,104.55	205.87	16.080	
16,400.00	10,454.17	16,450.28	10,523.81	104.96	104.13	90.96	5,926.66	2,833.46	3,310.43	3,101.47	208.97	15.842	
16,500.00	10,453.67	16,550.27	10,523.41	106.51	105.68	90.96	6,026.65	2,832.81	3,310.45	3,098.38	212.07	15.610	
16,600.00	10,453.17	16,650.27	10,523.01	108.07	107.24	90.97	6,126.64	2,832.15	3,310.46	3,095.29	215.18	15.385	
16,700.00	10,452.67	16,750.27	10,522.61	109.62	108.79	90.97	6,226.63	2,831.50	3,310.48	3,092.19	218.29	15.165	
16,800.00	10,452.17	16,850.26	10,522.21	111.18	110.35	90.97	6,326.63	2,830.84	3,310.49	3,089.08	221.41	14.952	
16,900.00	10,451.68	16,950.26	10,521.81	112.74	111.91	90.97	6,426.62	2,830.19	3,310.51	3,085.97	224.54	14.744	
17,000.00	10,451.18	17,050.25	10,521.41	114.31	113.48	90.97	6,526.61	2,829.53	3,310.52	3,082.86	227.67	14.541	
17,100.00	10,450.68	17,150.25	10,521.01	115.88	115.04	90.97	6,626.60	2,828.88	3,310.54	3,079.73	230.80	14.344	
17,200.00	10,450.18	17,250.24	10,520.61	117.45	116.61	90.98	6,726.60	2,828.22	3,310.55	3,076.61	233.94	14.151	
17,300.00	10,449.69	17,350.24	10,520.21	119.02	118.18	90.98	6,826.59	2,827.57	3,310.57	3,073.48	237.09	13.963	
17,400.00	10,449.19	17,450.23	10,519.82	120.60	119.76	90.98	6,926.58	2,826.91	3,310.58	3,070.35	240.24	13.780	
17,500.00	10,448.69	17,550.23	10,519.42	122.17	121.33	90.98	7,026.57	2,826.26	3,310.60	3,067.21	243.39	13.602	
17,600.00	10,448.20	17,650.23	10,519.02	123.75	122.91	90.98	7,126.57	2,825.60	3,310.62	3,064.07	246.55	13.428	
17,700.00	10,447.70	17,750.22	10,518.62	125.33	124.49	90.99	7,226.56	2,824.95	3,310.63	3,060.92	249.71	13.258	
17,800.00	10,447.20	17,850.22	10,518.22	126.91	126.08	90.99	7,326.55	2,824.29	3,310.65	3,057.77	252.88	13.092	
17,900.00	10,446.71	17,950.21	10,517.82	128.50	127.66	90.99	7,426.55	2,823.64	3,310.67	3,054.62	256.05	12.930	
18,000.00	10,446.21	18,050.21	10,517.42	130.09	129.25	90.99	7,526.54	2,822.99	3,310.68	3,051.46	259.22	12.772	
18,100.00	10,445.71	18,150.20	10,517.02	131.67	130.83	90.99	7,626.53	2,822.33	3,310.70	3,048.30	262.40	12.617	
18,200.00	10,445.22	18,250.20	10,516.63	133.26	132.42	90.99	7,726.52	2,821.68	3,310.72	3,045.14	265.58	12.466	
18,300.00	10,444.72	18,350.20	10,516.23	134.86	134.01	91.00	7,826.52	2,821.03	3,310.74	3,041.98	268.76	12.318	
18,400.00	10,444.23	18,450.19	10,515.83	136.45	135.61	91.00	7,926.51	2,820.37	3,310.76	3,038.81	271.95	12.174	
18,500.00	10,443.73	18,550.19	10,515.43	138.04	137.20	91.00	8,026.50	2,819.72	3,310.77	3,035.64	275.14	12.033	
18,600.00	10,443.24	18,650.18	10,515.03	139.64	138.80	91.00	8,126.49	2,819.07	3,310.79	3,032.46	278.33	11.895	
18,700.00	10,442.74	18,750.18	10,514.63	141.24	140.39	91.00	8,226.49	2,818.41	3,310.81	3,029.29	281.53	11.760	
18,800.00	10,442.25	18,850.17	10,514.24	142.84	141.99	91.00	8,326.48	2,817.76	3,310.83	3,026.11	284.72	11.628	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 501H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	10,441.75	18,950.17	10,513.84	144.44	143.59	91.01	8,426.47	2,817.11	3,310.85	3,022.93	287.92	11.499	
19,000.00	10,441.26	19,050.16	10,513.44	146.04	145.19	91.01	8,526.46	2,816.45	3,310.87	3,019.74	291.13	11.373	
19,100.00	10,440.76	19,150.16	10,513.04	147.64	146.80	91.01	8,626.46	2,815.80	3,310.89	3,016.56	294.33	11.249	
19,200.00	10,440.27	19,250.16	10,512.64	149.24	148.40	91.01	8,726.45	2,815.15	3,310.91	3,013.37	297.54	11.128	
19,300.00	10,439.77	19,350.15	10,512.24	150.85	150.00	91.01	8,826.44	2,814.50	3,310.93	3,010.18	300.75	11.009	
19,400.00	10,439.28	19,450.15	10,511.85	152.45	151.61	91.01	8,926.44	2,813.84	3,310.95	3,006.99	303.96	10.893	
19,500.00	10,438.78	19,550.14	10,511.45	154.06	153.22	91.02	9,026.43	2,813.19	3,310.97	3,003.80	307.18	10.779	
19,600.00	10,438.29	19,650.14	10,511.05	155.67	154.82	91.02	9,126.42	2,812.54	3,310.99	3,000.60	310.39	10.667	
19,700.00	10,437.80	19,750.13	10,510.65	157.28	156.43	91.02	9,226.41	2,811.89	3,311.01	2,997.40	313.61	10.558	
19,800.00	10,437.30	19,850.13	10,510.25	158.89	158.04	91.02	9,326.41	2,811.24	3,311.03	2,994.20	316.83	10.451	
19,900.00	10,436.81	19,950.13	10,509.86	160.50	159.65	91.02	9,426.40	2,810.59	3,311.06	2,991.00	320.05	10.345	
20,000.00	10,436.32	20,050.12	10,509.46	162.11	161.26	91.02	9,526.39	2,809.94	3,311.08	2,987.80	323.28	10.242	
20,100.00	10,435.82	20,150.12	10,509.06	163.72	162.88	91.03	9,626.38	2,809.28	3,311.10	2,984.60	326.50	10.141	
20,200.00	10,435.33	20,250.11	10,508.66	165.34	164.49	91.03	9,726.38	2,808.63	3,311.12	2,981.39	329.73	10.042	
20,300.00	10,434.84	20,350.11	10,508.27	166.95	166.11	91.03	9,826.37	2,807.98	3,311.14	2,978.19	332.96	9.945	
20,400.00	10,434.34	20,450.10	10,507.87	168.57	167.72	91.03	9,926.36	2,807.33	3,311.17	2,974.98	336.19	9.849	
20,500.00	10,433.85	20,550.10	10,507.47	170.18	169.34	91.03	10,026.36	2,806.68	3,311.19	2,971.77	339.42	9.755	
20,600.00	10,433.36	20,650.09	10,507.07	171.80	170.95	91.03	10,126.35	2,806.03	3,311.21	2,968.56	342.65	9.663	
20,700.00	10,432.86	20,750.09	10,506.67	173.42	172.57	91.03	10,226.34	2,805.38	3,311.24	2,965.35	345.89	9.573	
20,800.00	10,432.37	20,850.09	10,506.28	175.04	174.19	91.04	10,326.33	2,804.73	3,311.26	2,962.13	349.13	9.484	
20,800.03	10,432.37	20,850.12	10,506.28	175.04	174.19	91.04	10,326.37	2,804.73	3,311.26	2,962.13	349.13	9.484	
20,875.64	10,432.00	20,919.83	10,506.00	176.26	175.32	91.04	10,396.07	2,804.28	3,311.28	2,959.81	351.47	9.421 SF	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 502H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	14.00	14.00	0.00	0.02	87.28	130.91	2,753.82	2,756.93				
100.00	100.00	114.00	114.00	0.14	0.18	87.28	130.91	2,753.82	2,756.93	2,756.61	0.32	8,617.123	
200.00	200.00	214.00	214.00	0.49	0.54	87.28	130.91	2,753.82	2,756.93	2,755.89	1.04	2,658.873	
300.00	300.00	314.00	314.00	0.85	0.90	87.28	130.91	2,753.82	2,756.93	2,755.18	1.75	1,571.955	
400.00	400.00	414.00	414.00	1.21	1.26	87.28	130.91	2,753.82	2,756.93	2,754.46	2.47	1,115.820	
500.00	500.00	514.00	514.00	1.57	1.62	87.28	130.91	2,753.82	2,756.93	2,753.74	3.19	864.863	
600.00	600.00	614.00	614.00	1.93	1.98	87.28	130.91	2,753.82	2,756.93	2,753.03	3.90	706.063	
700.00	700.00	714.00	714.00	2.29	2.34	87.28	130.91	2,753.82	2,756.93	2,752.31	4.62	596.532	
800.00	800.00	814.00	814.00	2.64	2.69	87.28	130.91	2,753.82	2,756.93	2,751.59	5.34	516.420	
900.00	900.00	914.00	914.00	3.00	3.05	87.28	130.91	2,753.82	2,756.93	2,750.87	6.06	455.278	
1,000.00	1,000.00	1,014.00	1,014.00	3.36	3.41	87.28	130.91	2,753.82	2,756.93	2,750.16	6.77	407.082	
1,100.00	1,100.00	1,114.00	1,114.00	3.72	3.77	87.28	130.91	2,753.82	2,756.93	2,749.44	7.49	368.113	
1,200.00	1,200.00	1,214.00	1,214.00	4.08	4.13	87.28	130.91	2,753.82	2,756.93	2,748.72	8.21	335.952	
1,300.00	1,300.00	1,314.00	1,314.00	4.44	4.49	87.28	130.91	2,753.82	2,756.93	2,748.01	8.92	308.960	
1,400.00	1,400.00	1,414.00	1,414.00	4.80	4.84	87.28	130.91	2,753.82	2,756.93	2,747.29	9.64	285.983	
1,500.00	1,500.00	1,514.00	1,514.00	5.15	5.20	87.28	130.91	2,753.82	2,756.93	2,746.57	10.36	266.186	
1,600.00	1,600.00	1,614.00	1,614.00	5.51	5.56	87.28	130.91	2,753.82	2,756.93	2,745.86	11.07	248.953	
1,700.00	1,700.00	1,714.00	1,714.00	5.87	5.92	87.28	130.91	2,753.82	2,756.93	2,745.14	11.79	233.816	
1,800.00	1,800.00	1,814.00	1,814.00	6.23	6.28	87.28	130.91	2,753.82	2,756.93	2,744.42	12.51	220.414	
1,900.00	1,900.00	1,914.00	1,914.00	6.59	6.64	87.28	130.91	2,753.82	2,756.93	2,743.71	13.22	208.465	
2,000.00	2,000.00	2,058.51	2,058.50	6.95	7.15	87.29	130.47	2,752.90	2,756.34	2,742.25	14.09	195.592	
2,100.00	2,100.00	2,646.12	2,640.73	7.30	9.21	87.86	100.34	2,688.42	2,741.37	2,725.15	16.22	169.018	
2,200.00	2,200.00	2,743.93	2,736.41	7.66	9.59	88.03	91.73	2,669.99	2,722.17	2,705.25	16.92	160.922	
2,300.00	2,299.98	2,842.09	2,832.42	8.01	9.98	-155.96	83.09	2,651.51	2,704.55	2,686.95	17.60	153.629	
2,400.00	2,399.84	2,940.85	2,929.03	8.34	10.38	-155.96	74.40	2,632.90	2,690.11	2,671.82	18.29	147.099	
2,500.00	2,499.45	3,040.10	3,026.11	8.68	10.79	-155.95	65.66	2,614.21	2,678.83	2,659.85	18.98	141.138	
2,600.00	2,598.70	3,139.72	3,123.54	9.03	11.20	-155.95	56.89	2,595.44	2,670.73	2,651.05	19.68	135.702	
2,700.00	2,697.47	3,239.57	3,221.22	9.38	11.63	-155.95	48.10	2,576.64	2,665.81	2,645.42	20.39	130.747	
2,800.00	2,795.62	3,339.55	3,319.01	9.75	12.06	-155.95	39.30	2,557.80	2,664.08	2,642.97	21.10	126.233	
2,900.00	2,893.44	3,439.55	3,416.83	10.13	12.49	-155.96	30.50	2,538.97	2,663.94	2,642.12	21.83	122.047	
3,000.00	2,991.25	3,539.55	3,514.64	10.51	12.93	-155.97	21.70	2,520.13	2,663.81	2,641.25	22.56	118.095	
3,100.00	3,089.07	3,639.55	3,612.46	10.91	13.37	-155.97	12.90	2,501.30	2,663.67	2,640.38	23.29	114.361	
3,200.00	3,186.88	3,739.55	3,710.27	11.31	13.82	-155.98	4.09	2,482.46	2,663.53	2,639.50	24.03	110.830	
3,300.00	3,284.70	3,839.55	3,808.08	11.72	14.27	-155.99	-4.71	2,463.62	2,663.39	2,638.62	24.78	107.489	
3,400.00	3,382.51	3,939.55	3,905.90	12.14	14.72	-155.99	-13.51	2,444.79	2,663.26	2,637.73	25.53	104.325	
3,500.00	3,480.33	4,039.55	4,003.71	12.56	15.18	-156.00	-22.31	2,425.95	2,663.12	2,636.84	26.28	101.326	
3,600.00	3,578.14	4,139.55	4,101.53	12.99	15.63	-156.01	-31.11	2,407.12	2,662.98	2,635.94	27.04	98.481	
3,700.00	3,675.96	4,239.55	4,199.34	13.42	16.09	-156.01	-39.92	2,388.28	2,662.85	2,635.04	27.80	95.779	
3,800.00	3,773.77	4,339.55	4,297.16	13.86	16.56	-156.02	-48.72	2,369.45	2,662.71	2,634.14	28.57	93.210	
3,900.00	3,871.59	4,439.55	4,394.97	14.30	17.02	-156.03	-57.52	2,350.61	2,662.57	2,633.24	29.33	90.767	
4,000.00	3,969.40	4,539.54	4,492.78	14.75	17.49	-156.03	-66.32	2,331.77	2,662.44	2,632.33	30.10	88.441	
4,100.00	4,067.22	4,639.54	4,590.60	15.19	17.95	-156.04	-75.13	2,312.94	2,662.30	2,631.42	30.88	86.224	
4,200.00	4,165.03	4,739.54	4,688.41	15.64	18.42	-156.05	-83.93	2,294.10	2,662.16	2,630.51	31.65	84.109	
4,300.00	4,262.84	4,839.54	4,786.23	16.10	18.89	-156.05	-92.73	2,275.27	2,662.03	2,629.60	32.43	82.090	
4,400.00	4,360.66	4,939.54	4,884.04	16.55	19.36	-156.06	-101.53	2,256.43	2,661.89	2,628.68	33.21	80.160	
4,500.00	4,458.47	5,039.54	4,981.86	17.01	19.83	-156.07	-110.34	2,237.60	2,661.75	2,627.77	33.99	78.315	
4,529.32	4,487.15	5,068.86	5,010.53	17.14	19.97	-156.07	-112.92	2,232.07	2,661.71	2,627.50	34.22	77.790	
4,600.00	4,556.46	5,139.53	5,079.66	17.46	20.31	-156.06	-119.14	2,218.76	2,660.82	2,626.05	34.77	76.529	
4,700.00	4,655.06	5,239.44	5,177.38	17.90	20.78	-156.00	-127.93	2,199.94	2,656.84	2,621.29	35.55	74.745	
4,800.00	4,754.18	5,339.14	5,274.90	18.31	21.26	-155.88	-136.71	2,181.16	2,649.67	2,613.35	36.32	72.962	
4,900.00	4,853.70	5,438.51	5,372.10	18.69	21.73	-155.70	-145.45	2,162.45	2,639.33	2,602.25	37.08	71.181	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 502H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	5,537.43	5,468.86	19.05	22.20	-155.46	-154.16	2,143.81	2,625.85	2,588.02	37.83	69.404	
5,100.00	5,053.46	5,635.77	5,565.06	19.39	22.67	-155.16	-162.82	2,125.29	2,609.24	2,570.66	38.58	67.632	
5,129.32	5,082.78	5,664.48	5,593.14	19.49	22.81	88.94	-165.34	2,119.88	2,603.79	2,564.99	38.80	67.114	
5,200.00	5,153.46	5,733.62	5,660.76	19.71	23.14	89.08	-171.43	2,106.86	2,590.32	2,551.01	39.31	65.889	
5,300.00	5,253.46	5,800.00	5,725.82	20.04	23.45	89.20	-177.01	2,094.92	2,572.06	2,532.11	39.95	64.382	
5,400.00	5,353.46	5,844.14	5,769.24	20.36	23.65	89.27	-180.37	2,087.74	2,555.44	2,514.94	40.51	63.085	
5,500.00	5,453.46	5,900.00	5,824.36	20.68	23.90	89.36	-184.21	2,079.51	2,540.59	2,499.49	41.09	61.825	
5,600.00	5,553.46	5,953.36	5,877.17	21.00	24.12	89.43	-187.46	2,072.57	2,527.46	2,485.80	41.66	60.674	
5,700.00	5,653.46	6,000.00	5,923.43	21.33	24.32	89.49	-189.95	2,067.23	2,516.11	2,473.92	42.18	59.646	
5,800.00	5,753.46	6,063.72	5,986.79	21.65	24.57	89.55	-192.84	2,061.04	2,506.45	2,463.69	42.76	58.617	
5,900.00	5,853.46	6,100.00	6,022.92	21.98	24.71	89.58	-194.22	2,058.09	2,498.71	2,455.50	43.22	57.820	
6,000.00	5,953.46	6,174.92	6,097.65	22.31	24.98	89.63	-196.46	2,053.30	2,492.47	2,448.66	43.81	56.890	
6,100.00	6,053.46	6,230.72	6,153.39	22.64	25.17	89.66	-197.59	2,050.89	2,488.14	2,443.82	44.32	56.143	
6,200.00	6,153.46	6,300.00	6,222.64	22.97	25.40	89.68	-198.35	2,049.26	2,485.63	2,440.76	44.87	55.396	
6,300.00	6,253.46	6,344.82	6,267.46	23.30	25.54	89.68	-198.46	2,049.01	2,484.77	2,439.48	45.29	54.859	
6,400.00	6,353.46	6,444.82	6,367.46	23.63	25.84	89.68	-198.46	2,049.01	2,484.77	2,438.81	45.96	54.061	
6,500.00	6,453.46	6,544.82	6,467.46	23.96	26.14	89.68	-198.46	2,049.01	2,484.77	2,438.14	46.63	53.285	
6,600.00	6,553.46	6,644.82	6,567.46	24.30	26.44	89.68	-198.46	2,049.01	2,484.77	2,437.47	47.30	52.529	
6,700.00	6,653.46	6,744.82	6,667.46	24.63	26.74	89.68	-198.46	2,049.01	2,484.77	2,436.80	47.98	51.793	
6,800.00	6,753.46	6,844.82	6,767.46	24.96	27.05	89.68	-198.46	2,049.01	2,484.77	2,436.12	48.65	51.076	
6,900.00	6,853.46	6,944.82	6,867.46	25.30	27.35	89.68	-198.46	2,049.01	2,484.77	2,435.45	49.32	50.377	
7,000.00	6,953.46	7,044.82	6,967.46	25.64	27.66	89.68	-198.46	2,049.01	2,484.77	2,434.77	50.00	49.696	
7,100.00	7,053.46	7,144.82	7,067.46	25.97	27.97	89.68	-198.46	2,049.01	2,484.77	2,434.09	50.68	49.032	
7,200.00	7,153.46	7,244.82	7,167.46	26.31	28.28	89.68	-198.46	2,049.01	2,484.77	2,433.42	51.35	48.384	
7,300.00	7,253.46	7,344.82	7,267.46	26.65	28.59	89.68	-198.46	2,049.01	2,484.77	2,432.74	52.03	47.753	
7,400.00	7,353.46	7,444.82	7,367.46	26.98	28.90	89.68	-198.46	2,049.01	2,484.77	2,432.06	52.71	47.137	
7,500.00	7,453.46	7,544.82	7,467.46	27.32	29.22	89.68	-198.46	2,049.01	2,484.77	2,431.38	53.40	46.535	
7,600.00	7,553.46	7,644.82	7,567.46	27.66	29.53	89.68	-198.46	2,049.01	2,484.77	2,430.69	54.08	45.949	
7,700.00	7,653.46	7,744.82	7,667.46	28.00	29.85	89.68	-198.46	2,049.01	2,484.77	2,430.01	54.76	45.376	
7,800.00	7,753.46	7,844.82	7,767.46	28.34	30.16	89.68	-198.46	2,049.01	2,484.77	2,429.33	55.44	44.816	
7,900.00	7,853.46	7,944.82	7,867.46	28.68	30.48	89.68	-198.46	2,049.01	2,484.77	2,428.64	56.13	44.269	
8,000.00	7,953.46	8,044.82	7,967.46	29.02	30.80	89.68	-198.46	2,049.01	2,484.77	2,427.96	56.81	43.735	
8,100.00	8,053.46	8,144.82	8,067.46	29.36	31.12	89.68	-198.46	2,049.01	2,484.77	2,427.27	57.50	43.213	
8,200.00	8,153.46	8,244.82	8,167.46	29.71	31.44	89.68	-198.46	2,049.01	2,484.77	2,426.58	58.19	42.703	
8,300.00	8,253.46	8,344.82	8,267.46	30.05	31.76	89.68	-198.46	2,049.01	2,484.77	2,425.90	58.87	42.205	
8,400.00	8,353.46	8,444.82	8,367.46	30.39	32.08	89.68	-198.46	2,049.01	2,484.77	2,425.21	59.56	41.717	
8,500.00	8,453.46	8,544.82	8,467.46	30.73	32.40	89.68	-198.46	2,049.01	2,484.77	2,424.52	60.25	41.240	
8,600.00	8,553.46	8,644.82	8,567.46	31.08	32.72	89.68	-198.46	2,049.01	2,484.77	2,423.83	60.94	40.773	
8,700.00	8,653.46	8,744.82	8,667.46	31.42	33.05	89.68	-198.46	2,049.01	2,484.77	2,423.14	61.63	40.317	
8,800.00	8,753.46	8,844.82	8,767.46	31.76	33.37	89.68	-198.46	2,049.01	2,484.77	2,422.45	62.32	39.870	
8,900.00	8,853.46	8,944.82	8,867.46	32.11	33.70	89.68	-198.46	2,049.01	2,484.77	2,421.76	63.01	39.432	
9,000.00	8,953.46	9,044.82	8,967.46	32.45	34.02	89.68	-198.46	2,049.01	2,484.77	2,421.07	63.71	39.004	
9,100.00	9,053.46	9,144.82	9,067.46	32.80	34.35	89.68	-198.46	2,049.01	2,484.77	2,420.37	64.40	38.585	
9,200.00	9,153.46	9,244.82	9,167.46	33.14	34.67	89.68	-198.46	2,049.01	2,484.77	2,419.68	65.09	38.174	
9,300.00	9,253.46	9,344.82	9,267.46	33.49	35.00	89.68	-198.46	2,049.01	2,484.77	2,418.99	65.78	37.771	
9,400.00	9,353.46	9,444.82	9,367.46	33.83	35.33	89.68	-198.46	2,049.01	2,484.77	2,418.29	66.48	37.377	
9,500.00	9,453.46	9,544.82	9,467.46	34.18	35.66	89.68	-198.46	2,049.01	2,484.77	2,417.60	67.17	36.991	
9,600.00	9,553.46	9,644.82	9,567.46	34.53	35.99	89.68	-198.46	2,049.01	2,484.77	2,416.90	67.87	36.612	
9,700.00	9,653.46	9,744.82	9,667.46	34.87	36.32	89.68	-198.46	2,049.01	2,484.77	2,416.21	68.56	36.240	
9,800.00	9,753.46	9,844.82	9,767.46	35.22	36.65	89.68	-198.46	2,049.01	2,484.77	2,415.51	69.26	35.876	
9,900.00	9,853.46	9,944.92	9,867.55	35.57	36.98	89.66	-197.70	2,049.01	2,484.77	2,414.82	69.95	35.520	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 502H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,924.12	9,877.58	9,969.02	9,891.58	35.65	37.06	89.62	-195.96	2,048.99	2,484.77	2,414.65	70.11	35.439 CC	
9,955.59	9,909.05	10,000.00	9,922.33	35.76	37.15	89.53	-192.23	2,048.97	2,484.77	2,414.45	70.32	35.335	
10,000.00	9,953.41	10,043.56	9,965.13	35.91	37.28	89.76	-184.19	2,048.92	2,484.79	2,414.19	70.60	35.197	
10,050.00	10,003.03	10,091.86	10,011.72	36.08	37.41	89.60	-171.51	2,048.83	2,484.83	2,413.94	70.89	35.052	
10,100.00	10,051.93	10,139.61	10,056.57	36.23	37.53	89.44	-155.16	2,048.72	2,484.89	2,413.73	71.16	34.918	
10,150.00	10,099.75	10,186.83	10,099.43	36.38	37.63	89.28	-135.37	2,048.59	2,484.97	2,413.55	71.42	34.794	
10,200.00	10,146.11	10,233.57	10,140.11	36.52	37.72	89.13	-112.37	2,048.44	2,485.06	2,413.40	71.66	34.680	
10,250.00	10,190.67	10,279.86	10,178.41	36.64	37.80	88.99	-86.41	2,048.27	2,485.16	2,413.28	71.88	34.574	
10,300.00	10,233.09	10,325.73	10,214.18	36.75	37.86	88.85	-57.71	2,048.08	2,485.28	2,413.19	72.09	34.475	
10,350.00	10,273.04	10,371.21	10,247.27	36.85	37.91	88.72	-26.52	2,047.87	2,485.39	2,413.10	72.29	34.381	
10,400.00	10,310.22	10,416.36	10,277.56	36.94	37.95	88.60	6.93	2,047.65	2,485.51	2,413.03	72.48	34.291	
10,450.00	10,344.35	10,461.19	10,304.95	37.01	37.98	88.50	42.41	2,047.41	2,485.63	2,412.96	72.67	34.205	
10,500.00	10,375.16	10,505.75	10,329.34	37.07	38.00	88.40	79.69	2,047.17	2,485.75	2,412.89	72.85	34.119	
10,550.00	10,402.43	10,550.00	10,350.62	37.11	38.02	88.31	118.47	2,046.91	2,485.86	2,412.82	73.04	34.034	
10,600.00	10,425.94	10,594.17	10,368.81	37.15	38.02	88.23	158.71	2,046.64	2,485.96	2,412.73	73.23	33.948	
10,650.00	10,445.52	10,638.10	10,383.78	37.19	38.02	88.17	199.99	2,046.37	2,486.04	2,412.62	73.42	33.860	
10,700.00	10,461.01	10,681.88	10,395.51	37.23	38.02	88.12	242.17	2,046.09	2,486.11	2,412.49	73.62	33.769	
10,750.00	10,472.31	10,725.56	10,403.97	37.30	38.02	88.08	285.01	2,045.80	2,486.17	2,412.34	73.83	33.675	
10,800.00	10,479.31	10,769.16	10,409.13	37.41	38.03	88.05	328.29	2,045.52	2,486.20	2,412.16	74.04	33.578	
10,850.00	10,481.98	10,812.71	10,410.99	37.55	38.06	88.04	371.79	2,045.23	2,486.22	2,411.96	74.26	33.478	
10,858.49	10,482.00	10,820.56	10,410.99	37.57	38.06	88.04	379.63	2,045.18	2,486.22	2,411.92	74.31	33.459	
10,900.00	10,481.79	10,862.06	10,410.86	37.70	38.10	88.04	421.14	2,044.90	2,486.22	2,411.69	74.53	33.359	
11,000.00	10,481.28	10,962.06	10,410.57	38.06	38.27	88.05	521.14	2,044.24	2,486.21	2,411.05	75.16	33.079	
11,100.00	10,480.78	11,062.06	10,410.27	38.49	38.57	88.05	621.13	2,043.57	2,486.21	2,410.28	75.93	32.744	
11,200.00	10,480.27	11,162.06	10,409.97	38.98	38.97	88.06	721.13	2,042.91	2,486.20	2,409.37	76.83	32.359	
11,300.00	10,479.77	11,262.06	10,409.68	39.53	39.45	88.06	821.13	2,042.25	2,486.19	2,408.33	77.87	31.929	
11,400.00	10,479.26	11,362.06	10,409.38	40.14	40.01	88.07	921.12	2,041.58	2,486.19	2,407.16	79.02	31.461	
11,500.00	10,478.76	11,462.06	10,409.08	40.81	40.63	88.07	1,021.12	2,040.92	2,486.18	2,405.88	80.30	30.959	
11,600.00	10,478.25	11,562.06	10,408.79	41.54	41.31	88.08	1,121.12	2,040.26	2,486.17	2,404.48	81.70	30.431	
11,700.00	10,477.75	11,662.06	10,408.49	42.31	42.04	88.08	1,221.12	2,039.60	2,486.17	2,402.97	83.20	29.882	
11,800.00	10,477.24	11,762.06	10,408.19	43.14	42.82	88.09	1,321.11	2,038.93	2,486.16	2,401.36	84.80	29.317	
11,900.00	10,476.74	11,862.06	10,407.90	44.01	43.65	88.09	1,421.11	2,038.27	2,486.15	2,399.65	86.50	28.740	
12,000.00	10,476.23	11,962.06	10,407.60	44.92	44.53	88.10	1,521.11	2,037.61	2,486.15	2,397.85	88.30	28.157	
12,100.00	10,475.73	12,062.06	10,407.30	45.88	45.45	88.10	1,621.10	2,036.94	2,486.14	2,395.97	90.17	27.570	
12,200.00	10,475.22	12,162.06	10,407.00	46.87	46.41	88.10	1,721.10	2,036.28	2,486.14	2,394.00	92.13	26.984	
12,300.00	10,474.72	12,262.06	10,406.71	47.90	47.41	88.11	1,821.10	2,035.62	2,486.13	2,391.96	94.17	26.401	
12,400.00	10,474.22	12,362.06	10,406.41	48.97	48.44	88.11	1,921.10	2,034.95	2,486.13	2,389.85	96.28	25.823	
12,500.00	10,473.71	12,462.06	10,406.11	50.06	49.51	88.12	2,021.09	2,034.29	2,486.12	2,387.67	98.45	25.253	
12,600.00	10,473.21	12,562.06	10,405.82	51.19	50.61	88.12	2,121.09	2,033.63	2,486.12	2,385.43	100.68	24.692	
12,700.00	10,472.70	12,662.06	10,405.52	52.34	51.73	88.13	2,221.09	2,032.96	2,486.11	2,383.13	102.98	24.143	
12,800.00	10,472.20	12,762.06	10,405.22	53.52	52.89	88.13	2,321.08	2,032.30	2,486.11	2,380.78	105.32	23.605	
12,900.00	10,471.70	12,862.06	10,404.93	54.73	54.07	88.14	2,421.08	2,031.64	2,486.10	2,378.38	107.72	23.079	
13,000.00	10,471.19	12,962.06	10,404.63	55.96	55.27	88.14	2,521.08	2,030.97	2,486.10	2,375.93	110.17	22.567	
13,100.00	10,470.69	13,062.06	10,404.33	57.21	56.50	88.15	2,621.08	2,030.31	2,486.09	2,373.43	112.66	22.068	
13,200.00	10,470.19	13,162.06	10,404.04	58.48	57.75	88.15	2,721.07	2,029.65	2,486.09	2,370.90	115.19	21.583	
13,300.00	10,469.68	13,262.06	10,403.74	59.77	59.02	88.16	2,821.07	2,028.98	2,486.08	2,368.32	117.76	21.112	
13,400.00	10,469.18	13,362.06	10,403.44	61.07	60.31	88.16	2,921.07	2,028.32	2,486.08	2,365.71	120.36	20.655	
13,500.00	10,468.68	13,462.06	10,403.15	62.40	61.61	88.17	3,021.06	2,027.66	2,486.07	2,363.07	123.00	20.211	
13,600.00	10,468.18	13,562.06	10,402.85	63.73	62.93	88.17	3,121.06	2,026.99	2,486.07	2,360.39	125.68	19.782	
13,700.00	10,467.67	13,662.06	10,402.55	65.09	64.27	88.18	3,221.06	2,026.33	2,486.07	2,357.69	128.38	19.365	
13,800.00	10,467.17	13,762.06	10,402.26	66.46	65.62	88.18	3,321.06	2,025.67	2,486.06	2,354.95	131.11	18.962	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 502H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,466.67	13,862.06	10,401.96	67.83	66.99	88.19	3,421.05	2,025.00	2,486.06	2,352.19	133.86	18.572	
14,000.00	10,466.17	13,962.06	10,401.66	69.23	68.37	88.19	3,521.05	2,024.34	2,486.05	2,349.41	136.64	18.194	
14,100.00	10,465.67	14,062.05	10,401.37	70.63	69.76	88.20	3,621.05	2,023.68	2,486.05	2,346.60	139.45	17.828	
14,200.00	10,465.17	14,162.05	10,401.07	72.04	71.16	88.20	3,721.04	2,023.01	2,486.05	2,343.77	142.28	17.474	
14,300.00	10,464.66	14,262.05	10,400.77	73.47	72.57	88.20	3,821.04	2,022.35	2,486.04	2,340.92	145.12	17.131	
14,400.00	10,464.16	14,362.05	10,400.48	74.90	73.99	88.21	3,921.04	2,021.69	2,486.04	2,338.05	147.99	16.799	
14,500.00	10,463.66	14,462.05	10,400.18	76.34	75.42	88.21	4,021.04	2,021.03	2,486.04	2,335.16	150.87	16.478	
14,600.00	10,463.16	14,562.05	10,399.88	77.80	76.86	88.22	4,121.03	2,020.36	2,486.03	2,332.26	153.77	16.167	
14,700.00	10,462.66	14,662.05	10,399.59	79.26	78.31	88.22	4,221.03	2,019.70	2,486.03	2,329.34	156.69	15.866	
14,800.00	10,462.16	14,762.05	10,399.29	80.72	79.77	88.23	4,321.03	2,019.04	2,486.03	2,326.40	159.62	15.574	
14,900.00	10,461.66	14,862.05	10,398.99	82.20	81.23	88.23	4,421.02	2,018.37	2,486.03	2,323.45	162.57	15.292	
15,000.00	10,461.16	14,962.05	10,398.70	83.68	82.70	88.24	4,521.02	2,017.71	2,486.02	2,320.49	165.53	15.018	
15,100.00	10,460.66	15,062.05	10,398.40	85.16	84.18	88.24	4,621.02	2,017.05	2,486.02	2,317.51	168.51	14.753	
15,200.00	10,460.16	15,162.05	10,398.10	86.66	85.67	88.25	4,721.02	2,016.38	2,486.02	2,314.52	171.49	14.496	
15,300.00	10,459.66	15,262.05	10,397.81	88.16	87.16	88.25	4,821.01	2,015.72	2,486.02	2,311.52	174.49	14.247	
15,400.00	10,459.16	15,362.05	10,397.51	89.66	88.66	88.26	4,921.01	2,015.06	2,486.01	2,308.51	177.50	14.005	
15,500.00	10,458.66	15,462.05	10,397.21	91.17	90.16	88.26	5,021.01	2,014.39	2,486.01	2,305.49	180.52	13.771	
15,600.00	10,458.16	15,562.05	10,396.92	92.69	91.67	88.27	5,121.00	2,013.73	2,486.01	2,302.46	183.55	13.544	
15,700.00	10,457.66	15,662.05	10,396.62	94.21	93.18	88.27	5,221.00	2,013.07	2,486.01	2,299.41	186.59	13.323	
15,800.00	10,457.16	15,762.05	10,396.32	95.73	94.70	88.27	5,321.00	2,012.40	2,486.01	2,296.36	189.64	13.109	
15,900.00	10,456.66	15,862.05	10,396.03	97.26	96.22	88.28	5,421.00	2,011.74	2,486.00	2,293.30	192.70	12.901	
16,000.00	10,456.16	15,962.05	10,395.73	98.79	97.75	88.28	5,520.99	2,011.08	2,486.00	2,290.24	195.77	12.699	
16,100.00	10,455.66	16,062.05	10,395.43	100.33	99.28	88.29	5,620.99	2,010.41	2,486.00	2,287.16	198.84	12.502	
16,200.00	10,455.16	16,162.05	10,395.14	101.87	100.81	88.29	5,720.99	2,009.75	2,486.00	2,284.08	201.92	12.312	
16,300.00	10,454.67	16,262.05	10,394.84	103.41	102.35	88.30	5,820.98	2,009.09	2,486.00	2,280.99	205.01	12.126	
16,400.00	10,454.17	16,362.05	10,394.54	104.96	103.89	88.30	5,920.98	2,008.42	2,486.00	2,277.89	208.11	11.946	
16,500.00	10,453.67	16,462.05	10,394.25	106.51	105.44	88.31	6,020.98	2,007.76	2,486.00	2,274.79	211.21	11.770	
16,600.00	10,453.17	16,562.05	10,393.95	108.07	106.99	88.31	6,120.98	2,007.10	2,486.00	2,271.68	214.32	11.600	
16,700.00	10,452.67	16,662.05	10,393.65	109.62	108.54	88.32	6,220.97	2,006.43	2,486.00	2,268.56	217.43	11.433	
16,800.00	10,452.17	16,762.05	10,393.36	111.18	110.09	88.32	6,320.97	2,005.77	2,485.99	2,265.44	220.55	11.272	
16,900.00	10,451.68	16,862.05	10,393.06	112.74	111.65	88.33	6,420.97	2,005.11	2,485.99	2,262.31	223.68	11.114	
17,000.00	10,451.18	16,962.05	10,392.76	114.31	113.21	88.33	6,520.97	2,004.44	2,485.99	2,259.18	226.81	10.961	
17,100.00	10,450.68	17,062.05	10,392.47	115.88	114.78	88.34	6,620.96	2,003.78	2,485.99	2,256.05	229.95	10.811	
17,200.00	10,450.18	17,162.05	10,392.17	117.45	116.34	88.34	6,720.96	2,003.12	2,485.99	2,252.91	233.09	10.665	
17,300.00	10,449.69	17,262.05	10,391.87	119.02	117.91	88.34	6,820.96	2,002.46	2,485.99	2,249.76	236.23	10.523	
17,377.37	10,449.30	17,339.42	10,391.64	120.24	119.13	88.35	6,898.32	2,001.94	2,485.99	2,247.32	238.67	10.416	
17,400.00	10,449.19	17,362.05	10,391.58	120.60	119.48	88.35	6,920.95	2,001.79	2,485.99	2,246.61	239.38	10.385	
17,500.00	10,448.69	17,462.05	10,391.28	122.17	121.06	88.35	7,020.95	2,001.13	2,485.99	2,243.45	242.54	10.250	
17,600.00	10,448.20	17,562.05	10,390.98	123.75	122.63	88.36	7,120.95	2,000.47	2,485.99	2,240.30	245.70	10.118	
17,700.00	10,447.70	17,662.05	10,390.69	125.33	124.21	88.36	7,220.95	1,999.80	2,485.99	2,237.13	248.86	9.989	
17,800.00	10,447.20	17,762.05	10,390.39	126.91	125.79	88.37	7,320.94	1,999.14	2,485.99	2,233.97	252.03	9.864	
17,900.00	10,446.71	17,862.05	10,390.09	128.50	127.37	88.37	7,420.94	1,998.48	2,485.99	2,230.80	255.20	9.741	
18,000.00	10,446.21	17,962.05	10,389.80	130.09	128.95	88.38	7,520.94	1,997.81	2,486.00	2,227.62	258.37	9.622	
18,100.00	10,445.71	18,062.05	10,389.50	131.67	130.54	88.38	7,620.93	1,997.15	2,486.00	2,224.45	261.55	9.505	
18,200.00	10,445.22	18,162.05	10,389.20	133.26	132.12	88.39	7,720.93	1,996.49	2,486.00	2,221.27	264.73	9.391	
18,300.00	10,444.72	18,262.05	10,388.91	134.86	133.71	88.39	7,820.93	1,995.82	2,486.00	2,218.08	267.92	9.279	
18,400.00	10,444.23	18,362.05	10,388.61	136.45	135.30	88.40	7,920.93	1,995.16	2,486.00	2,214.90	271.10	9.170	
18,500.00	10,443.73	18,462.05	10,388.31	138.04	136.89	88.40	8,020.92	1,994.50	2,486.00	2,211.71	274.29	9.063	
18,600.00	10,443.24	18,562.05	10,388.02	139.64	138.49	88.40	8,120.92	1,993.83	2,486.00	2,208.52	277.49	8.959	
18,700.00	10,442.74	18,662.05	10,387.72	141.24	140.08	88.41	8,220.92	1,993.17	2,486.00	2,205.32	280.68	8.857	
18,800.00	10,442.25	18,762.05	10,387.42	142.84	141.68	88.41	8,320.91	1,992.51	2,486.00	2,202.12	283.88	8.757	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 502H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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
18,900.00	10,441.75	18,862.05	10,387.13	144.44	143.28	88.42	8,420.91	1,991.84	2,486.01	2,198.93	287.08	8.660	
19,000.00	10,441.26	18,962.05	10,386.83	146.04	144.87	88.42	8,520.91	1,991.18	2,486.01	2,195.72	290.28	8.564	
19,100.00	10,440.76	19,062.04	10,386.53	147.64	146.47	88.43	8,620.91	1,990.52	2,486.01	2,192.52	293.49	8.470	
19,200.00	10,440.27	19,162.04	10,386.24	149.24	148.08	88.43	8,720.90	1,989.85	2,486.01	2,189.31	296.70	8.379	
19,300.00	10,439.77	19,262.04	10,385.94	150.85	149.68	88.44	8,820.90	1,989.19	2,486.01	2,186.10	299.91	8.289	
19,400.00	10,439.28	19,362.04	10,385.64	152.45	151.28	88.44	8,920.90	1,988.53	2,486.02	2,182.89	303.12	8.201	
19,500.00	10,438.78	19,462.04	10,385.35	154.06	152.89	88.45	9,020.89	1,987.86	2,486.02	2,179.68	306.34	8.115	
19,600.00	10,438.29	19,562.04	10,385.05	155.67	154.49	88.45	9,120.89	1,987.20	2,486.02	2,176.47	309.56	8.031	
19,700.00	10,437.80	19,662.04	10,384.75	157.28	156.10	88.45	9,220.89	1,986.54	2,486.02	2,173.25	312.77	7.948	
19,800.00	10,437.30	19,762.04	10,384.46	158.89	157.71	88.46	9,320.89	1,985.87	2,486.03	2,170.03	316.00	7.867	
19,900.00	10,436.81	19,862.04	10,384.16	160.50	159.32	88.46	9,420.88	1,985.21	2,486.03	2,166.81	319.22	7.788	
20,000.00	10,436.32	19,962.04	10,383.86	162.11	160.93	88.47	9,520.88	1,984.55	2,486.03	2,163.59	322.44	7.710	
20,100.00	10,435.82	20,062.04	10,383.57	163.72	162.54	88.47	9,620.88	1,983.88	2,486.03	2,160.37	325.67	7.634	
20,200.00	10,435.33	20,162.04	10,383.27	165.34	164.15	88.48	9,720.87	1,983.22	2,486.04	2,157.14	328.90	7.559	
20,300.00	10,434.84	20,262.04	10,382.97	166.95	165.76	88.48	9,820.87	1,982.56	2,486.04	2,153.91	332.13	7.485	
20,400.00	10,434.34	20,362.04	10,382.68	168.57	167.38	88.49	9,920.87	1,981.90	2,486.04	2,150.68	335.36	7.413	
20,500.00	10,433.85	20,462.04	10,382.38	170.18	168.99	88.49	10,020.87	1,981.23	2,486.05	2,147.46	338.59	7.342	
20,600.00	10,433.36	20,562.04	10,382.08	171.80	170.61	88.50	10,120.86	1,980.57	2,486.05	2,144.22	341.83	7.273	
20,700.00	10,432.86	20,662.04	10,381.79	173.42	172.22	88.50	10,220.86	1,979.91	2,486.05	2,140.99	345.06	7.205	
20,800.00	10,432.37	20,762.04	10,381.49	175.04	173.84	88.50	10,320.86	1,979.24	2,486.06	2,137.76	348.30	7.138	
20,875.64	10,432.00	20,814.70	10,381.21	176.26	174.69	88.50	10,373.51	1,979.03	2,486.30	2,136.08	350.22	7.099	ES, SF

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 504H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.54	0.20	25.10	25.10				
100.00	100.00	100.00	100.00	0.14	0.14	89.54	0.20	25.10	25.10	24.83	0.27	92.748	
200.00	200.00	200.00	200.00	0.49	0.49	89.54	0.20	25.10	25.10	24.11	0.99	25.417	
300.00	300.00	300.00	300.00	0.85	0.85	89.54	0.20	25.10	25.10	23.40	1.70	14.727	
400.00	400.00	400.00	400.00	1.21	1.21	89.54	0.20	25.10	25.10	22.68	2.42	10.366	
500.00	500.00	500.00	500.00	1.57	1.57	89.54	0.20	25.10	25.10	21.96	3.14	7.998	
600.00	600.00	600.00	600.00	1.93	1.93	89.54	0.20	25.10	25.10	21.25	3.86	6.511	
700.00	700.00	700.00	700.00	2.29	2.29	89.54	0.20	25.10	25.10	20.53	4.57	5.490	
800.00	800.00	800.00	800.00	2.64	2.64	89.54	0.20	25.10	25.10	19.81	5.29	4.746	
900.00	900.00	900.00	900.00	3.00	3.00	89.54	0.20	25.10	25.10	19.10	6.01	4.179	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	89.54	0.20	25.10	25.10	18.38	6.72	3.734	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	89.54	0.20	25.10	25.10	17.66	7.44	3.374	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	89.54	0.20	25.10	25.10	16.94	8.16	3.077	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	89.54	0.20	25.10	25.10	16.23	8.87	2.829	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	89.54	0.20	25.10	25.10	15.51	9.59	2.617	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	89.54	0.20	25.10	25.10	14.79	10.31	2.435	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	89.54	0.20	25.10	25.10	14.08	11.02	2.277	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	89.54	0.20	25.10	25.10	13.36	11.74	2.138	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	89.54	0.20	25.10	25.10	12.64	12.46	2.015	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	89.54	0.20	25.10	25.10	11.93	13.18	1.905	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	89.54	0.20	25.10	25.10	11.21	13.89	1.807	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	89.54	0.20	25.10	25.10	10.49	14.61	1.718	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	89.54	0.20	25.10	25.10	9.78	15.33	1.638	CC, ES, SF
2,300.00	2,299.98	2,299.98	2,299.98	8.01	8.02	-156.07	0.20	25.10	26.69	10.66	16.03	1.665	
2,400.00	2,399.84	2,399.84	2,399.84	8.34	8.38	-159.89	0.20	25.10	31.54	14.82	16.72	1.886	
2,500.00	2,499.45	2,499.45	2,499.45	8.68	8.74	-164.16	0.20	25.10	39.84	22.43	17.41	2.288	
2,600.00	2,598.70	2,598.70	2,598.70	9.03	9.09	-167.80	0.20	25.10	51.68	33.57	18.11	2.854	
2,700.00	2,697.47	2,695.88	2,695.86	9.38	9.43	-169.54	-0.60	26.49	68.19	49.41	18.77	3.632	
2,800.00	2,795.62	2,791.52	2,791.38	9.75	9.75	-169.40	-2.97	30.66	90.41	71.00	19.41	4.658	
2,900.00	2,893.44	2,885.62	2,885.14	10.13	10.07	-168.39	-6.85	37.46	116.57	96.54	20.03	5.820	
3,000.00	2,991.25	2,978.36	2,977.26	10.51	10.38	-166.88	-12.16	46.77	145.03	124.40	20.63	7.030	
3,100.00	3,089.07	3,069.58	3,067.48	10.91	10.70	-165.21	-18.83	58.45	175.86	154.64	21.22	8.289	
3,200.00	3,186.88	3,159.14	3,155.60	11.31	11.02	-163.50	-26.76	72.34	209.08	187.30	21.78	9.598	
3,300.00	3,284.70	3,250.09	3,244.61	11.72	11.35	-161.85	-35.99	88.52	244.40	222.00	22.39	10.914	
3,400.00	3,382.51	3,343.33	3,335.82	12.14	11.70	-160.54	-45.60	105.36	280.10	257.04	23.06	12.148	
3,500.00	3,480.33	3,436.57	3,427.02	12.56	12.06	-159.52	-55.20	122.19	315.90	292.17	23.73	13.312	
3,600.00	3,578.14	3,529.81	3,518.23	12.99	12.43	-158.71	-64.81	139.03	351.77	327.36	24.41	14.410	
3,700.00	3,675.96	3,623.05	3,609.43	13.42	12.80	-158.06	-74.42	155.87	387.69	362.59	25.10	15.447	
3,800.00	3,773.77	3,716.29	3,700.63	13.86	13.17	-157.51	-84.03	172.71	423.65	397.86	25.79	16.426	
3,900.00	3,871.59	3,809.53	3,791.84	14.30	13.55	-157.05	-93.64	189.54	459.64	433.15	26.49	17.352	
4,000.00	3,969.40	3,902.78	3,883.04	14.75	13.94	-156.65	-103.24	206.38	495.65	468.45	27.19	18.227	
4,100.00	4,067.22	3,996.02	3,974.25	15.19	14.33	-156.31	-112.85	223.22	531.67	503.77	27.90	19.057	
4,200.00	4,165.03	4,089.26	4,065.45	15.64	14.73	-156.01	-122.46	240.06	567.71	539.10	28.61	19.842	
4,300.00	4,262.84	4,182.50	4,156.65	16.10	15.13	-155.75	-132.07	256.89	603.77	574.44	29.33	20.588	
4,400.00	4,360.66	4,275.74	4,247.86	16.55	15.53	-155.52	-141.68	273.73	639.83	609.78	30.04	21.296	
4,500.00	4,458.47	4,368.98	4,339.06	17.01	15.94	-155.31	-151.28	290.57	675.90	645.13	30.77	21.969	
4,529.32	4,487.15	4,396.32	4,365.80	17.14	16.06	-155.25	-154.10	295.51	686.47	655.50	30.98	22.160	
4,600.00	4,556.46	4,462.50	4,430.53	17.46	16.35	-155.31	-160.92	307.46	711.23	679.74	31.49	22.586	
4,700.00	4,655.06	4,556.99	4,522.96	17.90	16.76	-155.29	-170.66	324.52	743.73	711.51	32.22	23.086	
4,800.00	4,754.18	4,663.54	4,627.26	18.31	17.23	-155.11	-181.44	343.42	772.97	739.91	33.06	23.379	
4,900.00	4,853.70	4,790.59	4,752.46	18.69	17.77	-154.87	-192.12	362.13	796.24	762.16	34.08	23.364	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 504H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	4,920.64	4,881.47	19.05	18.29	-154.66	-200.19	376.28	812.65	777.60	35.06	23.182	
5,100.00	5,053.46	5,052.71	5,013.11	19.39	18.78	-154.48	-205.41	385.43	822.04	786.06	35.98	22.849	
5,129.32	5,082.78	5,091.66	5,052.02	19.49	18.92	89.58	-206.38	387.12	823.44	787.20	36.23	22.726	
5,200.00	5,153.46	5,185.75	5,146.06	19.71	19.25	89.67	-207.63	389.31	825.08	788.25	36.83	22.405	
5,300.00	5,253.46	5,293.14	5,253.46	20.04	19.60	89.67	-207.70	389.44	825.18	787.64	37.53	21.986	
5,400.00	5,353.46	5,393.14	5,353.46	20.36	19.93	89.67	-207.70	389.44	825.18	786.96	38.21	21.595	
5,500.00	5,453.46	5,493.14	5,453.46	20.68	20.26	89.67	-207.70	389.44	825.18	786.28	38.89	21.218	
5,600.00	5,553.46	5,593.14	5,553.46	21.00	20.59	89.67	-207.70	389.44	825.18	785.60	39.57	20.853	
5,700.00	5,653.46	5,693.14	5,653.46	21.33	20.92	89.67	-207.70	389.44	825.18	784.92	40.25	20.499	
5,800.00	5,753.46	5,793.14	5,753.46	21.65	21.26	89.67	-207.70	389.44	825.18	784.24	40.94	20.157	
5,900.00	5,853.46	5,893.14	5,853.46	21.98	21.59	89.67	-207.70	389.44	825.18	783.55	41.62	19.825	
6,000.00	5,953.46	5,993.14	5,953.46	22.31	21.93	89.67	-207.70	389.44	825.18	782.87	42.31	19.504	
6,100.00	6,053.46	6,093.14	6,053.46	22.64	22.26	89.67	-207.70	389.44	825.18	782.18	42.99	19.192	
6,200.00	6,153.46	6,193.14	6,153.46	22.97	22.60	89.67	-207.70	389.44	825.18	781.49	43.68	18.890	
6,300.00	6,253.46	6,293.14	6,253.46	23.30	22.94	89.67	-207.70	389.44	825.18	780.80	44.37	18.597	
6,400.00	6,353.46	6,393.14	6,353.46	23.63	23.27	89.67	-207.70	389.44	825.18	780.11	45.06	18.313	
6,500.00	6,453.46	6,493.14	6,453.46	23.96	23.61	89.67	-207.70	389.44	825.18	779.42	45.75	18.036	
6,600.00	6,553.46	6,593.14	6,553.46	24.30	23.95	89.67	-207.70	389.44	825.18	778.73	46.44	17.768	
6,700.00	6,653.46	6,693.14	6,653.46	24.63	24.29	89.67	-207.70	389.44	825.18	778.04	47.13	17.507	
6,800.00	6,753.46	6,793.14	6,753.46	24.96	24.63	89.67	-207.70	389.44	825.18	777.35	47.83	17.253	
6,900.00	6,853.46	6,893.14	6,853.46	25.30	24.97	89.67	-207.70	389.44	825.18	776.66	48.52	17.007	
7,000.00	6,953.46	6,993.14	6,953.46	25.64	25.31	89.67	-207.70	389.44	825.18	775.96	49.21	16.767	
7,100.00	7,053.46	7,093.14	7,053.46	25.97	25.65	89.67	-207.70	389.44	825.18	775.27	49.91	16.534	
7,200.00	7,153.46	7,193.14	7,153.46	26.31	25.99	89.67	-207.70	389.44	825.18	774.57	50.60	16.306	
7,300.00	7,253.46	7,293.14	7,253.46	26.65	26.34	89.67	-207.70	389.44	825.18	773.88	51.30	16.085	
7,400.00	7,353.46	7,393.14	7,353.46	26.98	26.68	89.67	-207.70	389.44	825.18	773.18	52.00	15.870	
7,500.00	7,453.46	7,493.14	7,453.46	27.32	27.02	89.67	-207.70	389.44	825.18	772.48	52.69	15.660	
7,600.00	7,553.46	7,593.14	7,553.46	27.66	27.36	89.67	-207.70	389.44	825.18	771.78	53.39	15.455	
7,700.00	7,653.46	7,693.14	7,653.46	28.00	27.71	89.67	-207.70	389.44	825.18	771.09	54.09	15.256	
7,800.00	7,753.46	7,793.14	7,753.46	28.34	28.05	89.67	-207.70	389.44	825.18	770.39	54.79	15.061	
7,900.00	7,853.46	7,893.14	7,853.46	28.68	28.40	89.67	-207.70	389.44	825.18	769.69	55.49	14.872	
8,000.00	7,953.46	7,993.14	7,953.46	29.02	28.74	89.67	-207.70	389.44	825.18	768.99	56.19	14.686	
8,100.00	8,053.46	8,093.14	8,053.46	29.36	29.09	89.67	-207.70	389.44	825.18	768.29	56.89	14.506	
8,200.00	8,153.46	8,193.14	8,153.46	29.71	29.43	89.67	-207.70	389.44	825.18	767.59	57.59	14.329	
8,300.00	8,253.46	8,293.14	8,253.46	30.05	29.78	89.67	-207.70	389.44	825.18	766.89	58.29	14.157	
8,400.00	8,353.46	8,393.14	8,353.46	30.39	30.13	89.67	-207.70	389.44	825.18	766.19	58.99	13.989	
8,500.00	8,453.46	8,493.14	8,453.46	30.73	30.47	89.67	-207.70	389.44	825.18	765.49	59.69	13.824	
8,600.00	8,553.46	8,593.14	8,553.46	31.08	30.82	89.67	-207.70	389.44	825.18	764.78	60.39	13.664	
8,700.00	8,653.46	8,693.14	8,653.46	31.42	31.17	89.67	-207.70	389.44	825.18	764.08	61.09	13.507	
8,800.00	8,753.46	8,793.14	8,753.46	31.76	31.51	89.67	-207.70	389.44	825.18	763.38	61.80	13.353	
8,900.00	8,853.46	8,893.14	8,853.46	32.11	31.86	89.67	-207.70	389.44	825.18	762.68	62.50	13.203	
9,000.00	8,953.46	8,993.14	8,953.46	32.45	32.21	89.67	-207.70	389.44	825.18	761.97	63.20	13.056	
9,100.00	9,053.46	9,093.14	9,053.46	32.80	32.56	89.67	-207.70	389.44	825.18	761.27	63.91	12.912	
9,200.00	9,153.46	9,193.14	9,153.46	33.14	32.90	89.67	-207.70	389.44	825.18	760.57	64.61	12.772	
9,300.00	9,253.46	9,293.14	9,253.46	33.49	33.25	89.67	-207.70	389.44	825.18	759.86	65.31	12.634	
9,400.00	9,353.46	9,393.14	9,353.46	33.83	33.60	89.67	-207.70	389.44	825.18	759.16	66.02	12.499	
9,500.00	9,453.46	9,493.14	9,453.46	34.18	33.95	89.67	-207.70	389.44	825.18	758.45	66.72	12.367	
9,600.00	9,553.46	9,593.14	9,553.46	34.53	34.30	89.67	-207.70	389.44	825.18	757.75	67.43	12.238	
9,700.00	9,653.46	9,693.14	9,653.46	34.87	34.65	89.67	-207.70	389.44	825.18	757.04	68.13	12.111	
9,800.00	9,753.46	9,793.14	9,753.46	35.22	35.00	89.67	-207.70	389.44	825.18	756.34	68.84	11.987	
9,874.13	9,827.59	9,867.29	9,827.59	35.48	35.26	89.62	-206.99	389.44	825.18	755.82	69.36	11.897	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 504H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,853.46	9,893.05	9,853.28	35.57	35.34	89.49	-205.13	389.42	825.18	755.64	69.54	11.866	
9,955.59	9,909.05	9,947.55	9,907.21	35.76	35.52	88.96	-197.40	389.37	825.23	755.32	69.91	11.804	
10,000.00	9,953.41	9,990.13	9,948.69	35.91	35.66	88.77	-187.81	389.31	825.37	755.17	70.20	11.758	
10,050.00	10,003.03	10,037.42	9,993.77	36.08	35.80	88.14	-173.60	389.21	825.62	755.12	70.50	11.711	
10,100.00	10,051.93	10,084.04	10,036.93	36.23	35.92	87.53	-155.99	389.10	825.97	755.18	70.79	11.668	
10,150.00	10,099.75	10,130.04	10,077.97	36.38	36.04	86.94	-135.22	388.96	826.39	755.33	71.05	11.631	
10,200.00	10,146.11	10,175.49	10,116.75	36.52	36.15	86.38	-111.55	388.80	826.87	755.58	71.30	11.598	
10,250.00	10,190.67	10,220.41	10,153.12	36.64	36.24	85.84	-85.20	388.63	827.41	755.89	71.52	11.569	
10,300.00	10,233.09	10,264.87	10,186.97	36.75	36.32	85.33	-56.40	388.44	827.98	756.25	71.73	11.543	
10,350.00	10,273.04	10,308.89	10,218.19	36.85	36.39	84.85	-25.38	388.23	828.57	756.65	71.92	11.520	
10,400.00	10,310.22	10,350.00	10,245.11	36.94	36.45	84.44	5.67	388.03	829.17	757.08	72.09	11.502	
10,450.00	10,344.35	10,395.84	10,272.42	37.01	36.50	84.01	42.47	387.78	829.75	757.47	72.28	11.480	
10,500.00	10,375.16	10,438.84	10,295.29	37.07	36.53	83.65	78.87	387.54	830.31	757.86	72.45	11.460	
10,550.00	10,402.43	10,481.58	10,315.26	37.11	36.56	83.34	116.65	387.29	830.83	758.21	72.62	11.441	
10,600.00	10,425.94	10,524.10	10,332.27	37.15	36.58	83.06	155.61	387.03	831.29	758.50	72.80	11.420	
10,650.00	10,445.52	10,566.44	10,346.29	37.19	36.60	82.84	195.54	386.77	831.69	758.71	72.98	11.396	
10,700.00	10,461.01	10,608.62	10,357.29	37.23	36.69	82.66	236.26	386.50	832.01	758.84	73.17	11.370	
10,750.00	10,472.31	10,650.00	10,365.14	37.30	36.81	82.53	276.88	386.23	832.26	758.88	73.38	11.342	
10,800.00	10,479.31	10,692.69	10,370.15	37.41	36.94	82.44	319.26	385.95	832.41	758.80	73.61	11.309	
10,850.00	10,481.98	10,734.65	10,371.98	37.55	37.06	82.41	361.17	385.67	832.47	758.63	73.85	11.273	
10,858.49	10,482.00	10,742.15	10,371.99	37.57	37.09	82.41	368.67	385.62	832.48	758.58	73.89	11.266	
10,900.00	10,481.79	10,783.66	10,371.91	37.70	37.23	82.42	410.17	385.34	832.46	758.32	74.14	11.228	
11,000.00	10,481.28	10,883.66	10,371.72	38.06	37.60	82.44	510.17	384.68	832.42	757.58	74.84	11.123	
11,100.00	10,480.78	10,983.66	10,371.53	38.49	38.04	82.46	610.17	384.02	832.38	756.71	75.67	11.000	
11,200.00	10,480.27	11,083.66	10,371.34	38.98	38.54	82.48	710.17	383.35	832.34	755.70	76.63	10.861	
11,300.00	10,479.77	11,183.66	10,371.14	39.53	39.10	82.50	810.16	382.69	832.29	754.57	77.72	10.708	
11,400.00	10,479.26	11,283.66	10,370.95	40.14	39.73	82.52	910.16	382.03	832.25	753.32	78.94	10.543	
11,500.00	10,478.76	11,383.66	10,370.76	40.81	40.40	82.54	1,010.16	381.36	832.21	751.95	80.27	10.368	
11,600.00	10,478.25	11,483.66	10,370.56	41.54	41.14	82.56	1,110.16	380.70	832.17	750.46	81.71	10.185	
11,700.00	10,477.75	11,583.66	10,370.37	42.31	41.92	82.59	1,210.15	380.03	832.13	748.88	83.26	9.995	
11,800.00	10,477.24	11,683.66	10,370.18	43.14	42.76	82.61	1,310.15	379.37	832.09	747.19	84.90	9.801	
11,900.00	10,476.74	11,783.66	10,369.98	44.01	43.64	82.63	1,410.15	378.71	832.05	745.41	86.64	9.603	
12,000.00	10,476.23	11,883.66	10,369.79	44.92	44.56	82.65	1,510.15	378.04	832.01	743.54	88.47	9.405	
12,100.00	10,475.73	11,983.66	10,369.60	45.88	45.53	82.67	1,610.14	377.38	831.97	741.59	90.38	9.205	
12,200.00	10,475.22	12,083.66	10,369.40	46.87	46.53	82.69	1,710.14	376.71	831.93	739.56	92.37	9.007	
12,300.00	10,474.72	12,183.66	10,369.21	47.90	47.57	82.71	1,810.14	376.05	831.89	737.46	94.43	8.810	
12,400.00	10,474.22	12,283.66	10,369.01	48.97	48.64	82.73	1,910.14	375.38	831.86	735.29	96.56	8.615	
12,500.00	10,473.71	12,383.66	10,368.82	50.06	49.75	82.76	2,010.14	374.72	831.82	733.06	98.75	8.423	
12,600.00	10,473.21	12,483.66	10,368.63	51.19	50.89	82.78	2,110.13	374.06	831.78	730.77	101.01	8.235	
12,700.00	10,472.70	12,583.66	10,368.43	52.34	52.05	82.80	2,210.13	373.39	831.74	728.42	103.32	8.050	
12,800.00	10,472.20	12,683.66	10,368.24	53.52	53.24	82.82	2,310.13	372.73	831.70	726.02	105.68	7.870	
12,900.00	10,471.70	12,783.66	10,368.04	54.73	54.45	82.84	2,410.13	372.06	831.66	723.57	108.09	7.694	
13,000.00	10,471.19	12,883.66	10,367.85	55.96	55.69	82.86	2,510.12	371.40	831.62	721.08	110.55	7.523	
13,100.00	10,470.69	12,983.66	10,367.65	57.21	56.95	82.88	2,610.12	370.73	831.59	718.54	113.05	7.356	
13,200.00	10,470.19	13,083.66	10,367.46	58.48	58.23	82.90	2,710.12	370.07	831.55	715.96	115.58	7.194	
13,300.00	10,469.68	13,183.66	10,367.26	59.77	59.52	82.92	2,810.12	369.40	831.51	713.35	118.16	7.037	
13,400.00	10,469.18	13,283.66	10,367.06	61.07	60.84	82.95	2,910.11	368.74	831.47	710.70	120.77	6.885	
13,500.00	10,468.68	13,383.66	10,366.87	62.40	62.17	82.97	3,010.11	368.07	831.44	708.02	123.42	6.737	
13,600.00	10,468.18	13,483.66	10,366.67	63.73	63.51	82.99	3,110.11	367.41	831.40	705.31	126.09	6.594	
13,700.00	10,467.67	13,583.66	10,366.48	65.09	64.87	83.01	3,210.11	366.74	831.36	702.57	128.79	6.455	
13,800.00	10,467.17	13,683.66	10,366.28	66.46	66.24	83.03	3,310.10	366.07	831.32	699.80	131.52	6.321	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 504H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,466.67	13,783.66	10,366.08	67.83	67.63	83.05	3,410.10	365.41	831.29	697.01	134.28	6.191	
14,000.00	10,466.17	13,883.66	10,365.89	69.23	69.03	83.07	3,510.10	364.74	831.25	694.19	137.06	6.065	
14,100.00	10,465.67	13,983.66	10,365.69	70.63	70.44	83.09	3,610.10	364.08	831.21	691.35	139.86	5.943	
14,200.00	10,465.17	14,083.66	10,365.49	72.04	71.86	83.11	3,710.10	363.41	831.18	688.49	142.68	5.825	
14,300.00	10,464.66	14,183.66	10,365.29	73.47	73.29	83.13	3,810.09	362.75	831.14	685.62	145.53	5.711	
14,400.00	10,464.16	14,283.66	10,365.10	74.90	74.72	83.15	3,910.09	362.08	831.11	682.72	148.39	5.601	
14,500.00	10,463.66	14,383.66	10,364.90	76.34	76.17	83.18	4,010.09	361.41	831.07	679.80	151.27	5.494	
14,600.00	10,463.16	14,483.66	10,364.70	77.80	77.63	83.20	4,110.09	360.75	831.03	676.87	154.16	5.391	
14,700.00	10,462.66	14,583.66	10,364.50	79.26	79.09	83.22	4,210.08	360.08	831.00	673.92	157.08	5.290	
14,800.00	10,462.16	14,683.66	10,364.31	80.72	80.56	83.24	4,310.08	359.41	830.96	670.96	160.00	5.193	
14,900.00	10,461.66	14,783.66	10,364.11	82.20	82.04	83.26	4,410.08	358.75	830.93	667.99	162.94	5.100	
15,000.00	10,461.16	14,883.66	10,363.91	83.68	83.53	83.28	4,510.08	358.08	830.89	665.00	165.90	5.008	
15,100.00	10,460.66	14,983.66	10,363.71	85.16	85.02	83.30	4,610.07	357.41	830.86	661.99	168.86	4.920	
15,200.00	10,460.16	15,083.66	10,363.51	86.66	86.52	83.32	4,710.07	356.75	830.82	658.98	171.84	4.835	
15,300.00	10,459.66	15,183.66	10,363.32	88.16	88.02	83.34	4,810.07	356.08	830.79	655.96	174.83	4.752	
15,400.00	10,459.16	15,283.66	10,363.12	89.66	89.53	83.36	4,910.07	355.41	830.75	652.92	177.83	4.671	
15,500.00	10,458.66	15,383.66	10,362.92	91.17	91.04	83.38	5,010.06	354.75	830.72	649.87	180.85	4.593	
15,600.00	10,458.16	15,483.66	10,362.72	92.69	92.56	83.40	5,110.06	354.08	830.69	646.82	183.87	4.518	
15,700.00	10,457.66	15,583.66	10,362.52	94.21	94.08	83.42	5,210.06	353.41	830.65	643.75	186.90	4.444	
15,800.00	10,457.16	15,683.66	10,362.32	95.73	95.61	83.44	5,310.06	352.75	830.62	640.68	189.94	4.373	
15,900.00	10,456.66	15,783.66	10,362.12	97.26	97.14	83.46	5,410.06	352.08	830.58	637.60	192.99	4.304	
16,000.00	10,456.16	15,883.66	10,361.92	98.79	98.68	83.48	5,510.05	351.41	830.55	634.51	196.04	4.237	
16,100.00	10,455.66	15,983.66	10,361.72	100.33	100.22	83.51	5,610.05	350.74	830.52	631.41	199.11	4.171	
16,200.00	10,455.16	16,083.66	10,361.52	101.87	101.76	83.53	5,710.05	350.08	830.48	628.30	202.18	4.108	
16,300.00	10,454.67	16,183.66	10,361.32	103.41	103.31	83.55	5,810.05	349.41	830.45	625.19	205.26	4.046	
16,400.00	10,454.17	16,283.66	10,361.12	104.96	104.86	83.57	5,910.04	348.74	830.42	622.07	208.34	3.986	
16,500.00	10,453.67	16,383.66	10,360.92	106.51	106.41	83.59	6,010.04	348.07	830.38	618.95	211.44	3.927	
16,600.00	10,453.17	16,483.66	10,360.72	108.07	107.97	83.61	6,110.04	347.41	830.35	615.82	214.53	3.871	
16,700.00	10,452.67	16,583.66	10,360.52	109.62	109.53	83.63	6,210.04	346.74	830.32	612.68	217.64	3.815	
16,800.00	10,452.17	16,683.66	10,360.32	111.18	111.09	83.65	6,310.03	346.07	830.29	609.54	220.75	3.761	
16,900.00	10,451.68	16,783.66	10,360.12	112.74	112.65	83.67	6,410.03	345.40	830.25	606.39	223.86	3.709	
17,000.00	10,451.18	16,883.66	10,359.91	114.31	114.22	83.69	6,510.03	344.73	830.22	603.24	226.98	3.658	
17,100.00	10,450.68	16,983.66	10,359.71	115.88	115.79	83.71	6,610.03	344.06	830.19	600.08	230.11	3.608	
17,200.00	10,450.18	17,083.66	10,359.51	117.45	117.36	83.73	6,710.02	343.40	830.16	596.92	233.24	3.559	
17,300.00	10,449.69	17,183.66	10,359.31	119.02	118.94	83.75	6,810.02	342.73	830.13	593.76	236.37	3.512	
17,400.00	10,449.19	17,283.66	10,359.11	120.60	120.51	83.77	6,910.02	342.06	830.10	590.58	239.51	3.466	
17,500.00	10,448.69	17,383.66	10,358.91	122.17	122.09	83.79	7,010.02	341.39	830.06	587.41	242.65	3.421	
17,600.00	10,448.20	17,483.66	10,358.70	123.75	123.67	83.81	7,110.02	340.72	830.03	584.23	245.80	3.377	
17,700.00	10,447.70	17,583.66	10,358.50	125.33	125.26	83.83	7,210.01	340.05	830.00	581.05	248.95	3.334	
17,800.00	10,447.20	17,683.66	10,358.30	126.91	126.84	83.85	7,310.01	339.38	829.97	577.86	252.11	3.292	
17,900.00	10,446.71	17,783.66	10,358.10	128.50	128.43	83.87	7,410.01	338.72	829.94	574.67	255.27	3.251	
18,000.00	10,446.21	17,883.66	10,357.89	130.09	130.02	83.89	7,510.01	338.05	829.91	571.48	258.43	3.211	
18,100.00	10,445.71	17,983.66	10,357.69	131.67	131.61	83.91	7,610.00	337.38	829.88	568.28	261.60	3.172	
18,200.00	10,445.22	18,083.66	10,357.49	133.26	133.20	83.93	7,710.00	336.71	829.85	565.08	264.77	3.134	
18,300.00	10,444.72	18,183.66	10,357.28	134.86	134.79	83.95	7,810.00	336.04	829.82	561.88	267.94	3.097	
18,400.00	10,444.23	18,283.66	10,357.08	136.45	136.39	83.97	7,910.00	335.37	829.79	558.67	271.11	3.061	
18,500.00	10,443.73	18,383.66	10,356.88	138.04	137.98	83.99	8,009.99	334.70	829.76	555.46	274.29	3.025	
18,600.00	10,443.24	18,483.66	10,356.67	139.64	139.58	84.01	8,109.99	334.03	829.73	552.25	277.47	2.990	
18,700.00	10,442.74	18,583.66	10,356.47	141.24	141.18	84.03	8,209.99	333.36	829.70	549.04	280.66	2.956	
18,800.00	10,442.25	18,683.66	10,356.27	142.84	142.78	84.05	8,309.99	332.69	829.67	545.82	283.85	2.923	
18,900.00	10,441.75	18,783.66	10,356.06	144.44	144.38	84.07	8,409.98	332.02	829.64	542.60	287.04	2.890	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 504H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	10,441.26	18,883.66	10,355.86	146.04	145.98	84.09	8,509.98	331.35	829.61	539.38	290.23	2.858	
19,100.00	10,440.76	18,983.66	10,355.65	147.64	147.59	84.11	8,609.98	330.68	829.58	536.16	293.42	2.827	
19,200.00	10,440.27	19,083.66	10,355.45	149.24	149.19	84.13	8,709.98	330.01	829.55	532.93	296.62	2.797	
19,300.00	10,439.77	19,183.66	10,355.24	150.85	150.80	84.15	8,809.98	329.34	829.52	529.71	299.82	2.767	
19,400.00	10,439.28	19,283.66	10,355.04	152.45	152.41	84.17	8,909.97	328.67	829.49	526.48	303.02	2.737	
19,500.00	10,438.78	19,383.66	10,354.83	154.06	154.01	84.19	9,009.97	328.00	829.47	523.24	306.22	2.709	
19,600.00	10,438.29	19,483.66	10,354.63	155.67	155.62	84.21	9,109.97	327.33	829.44	520.01	309.43	2.681	
19,700.00	10,437.80	19,583.66	10,354.42	157.28	157.23	84.23	9,209.97	326.66	829.41	516.77	312.64	2.653	
19,800.00	10,437.30	19,683.66	10,354.22	158.89	158.84	84.25	9,309.96	325.99	829.38	513.54	315.85	2.626	
19,900.00	10,436.81	19,783.66	10,354.01	160.50	160.46	84.27	9,409.96	325.32	829.35	510.30	319.06	2.599	
20,000.00	10,436.32	19,883.66	10,353.81	162.11	162.07	84.29	9,509.96	324.65	829.32	507.05	322.27	2.573	
20,100.00	10,435.82	19,983.66	10,353.60	163.72	163.68	84.31	9,609.96	323.98	829.30	503.81	325.49	2.548	
20,200.00	10,435.33	20,083.66	10,353.39	165.34	165.30	84.33	9,709.95	323.31	829.27	500.57	328.70	2.523	
20,300.00	10,434.84	20,183.66	10,353.19	166.95	166.91	84.35	9,809.95	322.64	829.24	497.32	331.92	2.498	
20,400.00	10,434.34	20,283.66	10,352.98	168.57	168.53	84.37	9,909.95	321.97	829.21	494.07	335.14	2.474	
20,500.00	10,433.85	20,383.66	10,352.77	170.18	170.15	84.39	10,009.95	321.30	829.19	490.82	338.36	2.451	
20,600.00	10,433.36	20,483.66	10,352.57	171.80	171.77	84.41	10,109.95	320.63	829.16	487.57	341.59	2.427	
20,700.00	10,432.86	20,583.66	10,352.36	173.42	173.38	84.43	10,209.94	319.95	829.13	484.32	344.81	2.405	
20,800.00	10,432.37	20,683.66	10,352.15	175.04	175.00	84.45	10,309.94	319.28	829.11	481.07	348.04	2.382	
20,869.57	10,432.03	20,753.23	10,352.01	176.16	176.03	84.46	10,379.51	318.82	829.09	478.90	350.18	2.368	
20,875.64	10,432.00	20,757.58	10,352.00	176.26	176.10	84.46	10,383.85	318.79	829.09	478.75	350.34	2.367	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 505H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	10.00	10.00	0.00	0.01	88.56	32.30	1,283.96	1,284.36				
100.00	100.00	110.00	110.00	0.14	0.17	88.56	32.30	1,283.96	1,284.36	1,284.06	0.31	4,202.793	
200.00	200.00	210.00	210.00	0.49	0.53	88.56	32.30	1,283.96	1,284.36	1,283.34	1.02	1,256.050	
300.00	300.00	310.00	310.00	0.85	0.89	88.56	32.30	1,283.96	1,284.36	1,282.62	1.74	738.358	
400.00	400.00	410.00	410.00	1.21	1.25	88.56	32.30	1,283.96	1,284.36	1,281.91	2.46	522.858	
500.00	500.00	510.00	510.00	1.57	1.60	88.56	32.30	1,283.96	1,284.36	1,281.19	3.17	404.731	
600.00	600.00	610.00	610.00	1.93	1.96	88.56	32.30	1,283.96	1,284.36	1,280.47	3.89	330.144	
700.00	700.00	710.00	710.00	2.29	2.32	88.56	32.30	1,283.96	1,284.36	1,279.76	4.61	278.769	
800.00	800.00	810.00	810.00	2.64	2.68	88.56	32.30	1,283.96	1,284.36	1,279.04	5.32	241.231	
900.00	900.00	910.00	910.00	3.00	3.04	88.56	32.30	1,283.96	1,284.36	1,278.32	6.04	212.603	
1,000.00	1,000.00	1,010.00	1,010.00	3.36	3.40	88.56	32.30	1,283.96	1,284.36	1,277.60	6.76	190.048	
1,100.00	1,100.00	1,110.00	1,110.00	3.72	3.75	88.56	32.30	1,283.96	1,284.36	1,276.89	7.48	171.820	
1,200.00	1,200.00	1,210.00	1,210.00	4.08	4.11	88.56	32.30	1,283.96	1,284.36	1,276.17	8.19	156.783	
1,300.00	1,300.00	1,310.00	1,310.00	4.44	4.47	88.56	32.30	1,283.96	1,284.36	1,275.45	8.91	144.166	
1,400.00	1,400.00	1,410.00	1,410.00	4.80	4.83	88.56	32.30	1,283.96	1,284.36	1,274.74	9.63	133.428	
1,500.00	1,500.00	1,510.00	1,510.00	5.15	5.19	88.56	32.30	1,283.96	1,284.36	1,274.02	10.34	124.179	
1,600.00	1,600.00	1,610.00	1,610.00	5.51	5.55	88.56	32.30	1,283.96	1,284.36	1,273.30	11.06	116.129	
1,700.00	1,700.00	1,710.00	1,710.00	5.87	5.91	88.56	32.30	1,283.96	1,284.36	1,272.59	11.78	109.060	
1,800.00	1,800.00	1,810.00	1,810.00	6.23	6.26	88.56	32.30	1,283.96	1,284.36	1,271.87	12.49	102.801	
1,900.00	1,900.00	1,910.00	1,910.00	6.59	6.62	88.56	32.30	1,283.96	1,284.36	1,271.15	13.21	97.222	
2,000.00	2,000.00	2,010.00	2,010.00	6.95	6.98	88.56	32.30	1,283.96	1,284.36	1,270.43	13.93	92.218	
2,100.00	2,100.00	2,110.00	2,110.00	7.30	7.34	88.56	32.30	1,283.96	1,284.36	1,269.72	14.64	87.703	
2,200.00	2,200.00	2,210.00	2,210.00	7.66	7.70	88.56	32.30	1,283.96	1,284.36	1,269.00	15.36	83.610	CC, ES
2,300.00	2,299.98	2,309.98	2,309.98	8.01	8.06	-155.47	32.30	1,283.96	1,285.95	1,269.88	16.07	80.046	
2,400.00	2,399.84	2,411.44	2,411.44	8.34	8.42	-155.53	32.28	1,283.95	1,290.71	1,273.95	16.76	77.008	
2,500.00	2,499.45	2,527.45	2,527.41	8.68	8.81	-155.53	29.58	1,283.15	1,297.89	1,280.41	17.48	74.230	
2,600.00	2,598.70	2,643.41	2,643.12	9.03	9.19	-155.40	22.39	1,281.02	1,306.99	1,288.80	18.20	71.831	
2,700.00	2,697.47	2,759.13	2,758.19	9.38	9.57	-155.13	10.75	1,277.57	1,318.01	1,299.10	18.91	69.698	
2,800.00	2,795.62	2,874.42	2,872.25	9.75	9.96	-154.73	-5.28	1,272.83	1,330.95	1,311.32	19.63	67.790	
2,900.00	2,893.44	2,989.27	2,985.12	10.13	10.35	-154.30	-25.60	1,266.81	1,344.29	1,323.93	20.37	65.997	
3,000.00	2,991.25	3,089.36	3,083.03	10.51	10.72	-153.83	-45.54	1,260.90	1,357.02	1,335.94	21.08	64.377	
3,100.00	3,089.07	3,187.96	3,179.48	10.91	11.08	-153.38	-65.19	1,255.08	1,369.82	1,348.02	21.80	62.838	
3,200.00	3,186.88	3,286.56	3,275.92	11.31	11.46	-152.94	-84.85	1,249.26	1,382.71	1,360.17	22.53	61.365	
3,300.00	3,284.70	3,385.16	3,372.36	11.72	11.84	-152.51	-104.51	1,243.44	1,395.67	1,372.39	23.28	59.958	
3,400.00	3,382.51	3,483.75	3,468.80	12.14	12.23	-152.08	-124.16	1,237.62	1,408.72	1,384.68	24.03	58.613	
3,500.00	3,480.33	3,581.85	3,564.76	12.56	12.62	-151.66	-143.71	1,231.83	1,421.84	1,397.04	24.80	57.336	
3,600.00	3,578.14	3,669.59	3,650.87	12.99	12.97	-151.35	-159.83	1,227.06	1,435.44	1,409.91	25.53	56.235	
3,700.00	3,675.96	3,757.51	3,737.64	13.42	13.32	-151.15	-173.43	1,223.03	1,449.83	1,423.58	26.25	55.235	
3,800.00	3,773.77	3,845.46	3,824.82	13.86	13.66	-151.06	-184.48	1,219.76	1,464.97	1,438.01	26.96	54.333	
3,900.00	3,871.59	3,933.26	3,912.18	14.30	13.99	-151.07	-192.94	1,217.25	1,480.85	1,453.18	27.67	53.524	
4,000.00	3,969.40	4,020.76	3,999.46	14.75	14.31	-151.18	-198.82	1,215.51	1,497.46	1,469.10	28.36	52.805	
4,100.00	4,067.22	4,107.79	4,086.41	15.19	14.61	-151.39	-202.13	1,214.53	1,514.82	1,485.78	29.04	52.170	
4,200.00	4,165.03	4,196.41	4,175.03	15.64	14.92	-151.69	-202.95	1,214.29	1,532.94	1,503.23	29.71	51.600	
4,300.00	4,262.84	4,294.23	4,272.84	16.10	15.25	-152.05	-202.95	1,214.29	1,551.37	1,520.95	30.42	51.006	
4,400.00	4,360.66	4,392.04	4,370.66	16.55	15.58	-152.41	-202.95	1,214.29	1,569.85	1,538.73	31.12	50.438	
4,500.00	4,458.47	4,489.86	4,468.47	17.01	15.91	-152.75	-202.95	1,214.29	1,588.39	1,556.56	31.83	49.895	
4,529.32	4,487.15	4,518.53	4,497.15	17.14	16.01	-152.85	-202.95	1,214.29	1,593.84	1,561.79	32.04	49.741	
4,600.00	4,556.46	4,587.84	4,566.46	17.46	16.25	-153.19	-202.95	1,214.29	1,606.22	1,573.68	32.54	49.354	
4,700.00	4,655.06	4,686.44	4,665.06	17.90	16.58	-153.59	-202.95	1,214.29	1,621.15	1,587.90	33.25	48.752	
4,800.00	4,754.18	4,785.56	4,764.18	18.31	16.92	-153.90	-202.95	1,214.29	1,633.01	1,599.05	33.96	48.088	
4,900.00	4,853.70	4,885.08	4,863.70	18.69	17.26	-154.13	-202.95	1,214.29	1,641.77	1,607.11	34.66	47.367	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 505H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	4,984.88	4,963.50	19.05	17.61	-154.27	-202.95	1,214.29	1,647.40	1,612.05	35.36	46.593	
5,100.00	5,053.46	5,084.84	5,063.46	19.39	17.95	-154.33	-202.95	1,214.29	1,649.90	1,613.85	36.05	45.769	
5,129.32	5,082.78	5,114.16	5,092.78	19.49	18.05	89.67	-202.95	1,214.29	1,650.03	1,613.79	36.25	45.519	
5,200.00	5,153.46	5,184.84	5,163.46	19.71	18.30	89.67	-202.95	1,214.29	1,650.03	1,613.30	36.73	44.922	
5,300.00	5,253.46	5,284.84	5,263.46	20.04	18.64	89.67	-202.95	1,214.29	1,650.03	1,612.62	37.41	44.103	
5,400.00	5,353.46	5,384.84	5,363.46	20.36	18.99	89.67	-202.95	1,214.29	1,650.03	1,611.94	38.10	43.311	
5,500.00	5,453.46	5,484.84	5,463.46	20.68	19.33	89.67	-202.95	1,214.29	1,650.03	1,611.25	38.78	42.546	
5,600.00	5,553.46	5,584.84	5,563.46	21.00	19.68	89.67	-202.95	1,214.29	1,650.03	1,610.57	39.47	41.807	
5,700.00	5,653.46	5,684.84	5,663.46	21.33	20.03	89.67	-202.95	1,214.29	1,650.03	1,609.88	40.16	41.091	
5,800.00	5,753.46	5,784.84	5,763.46	21.65	20.37	89.67	-202.95	1,214.29	1,650.03	1,609.19	40.84	40.399	
5,900.00	5,853.46	5,884.84	5,863.46	21.98	20.72	89.67	-202.95	1,214.29	1,650.03	1,608.50	41.53	39.728	
6,000.00	5,953.46	5,984.84	5,963.46	22.31	21.07	89.67	-202.95	1,214.29	1,650.03	1,607.81	42.22	39.079	
6,100.00	6,053.46	6,084.84	6,063.46	22.64	21.42	89.67	-202.95	1,214.29	1,650.03	1,607.12	42.91	38.450	
6,200.00	6,153.46	6,184.84	6,163.46	22.97	21.77	89.67	-202.95	1,214.29	1,650.03	1,606.43	43.61	37.840	
6,300.00	6,253.46	6,284.84	6,263.46	23.30	22.12	89.67	-202.95	1,214.29	1,650.03	1,605.74	44.30	37.248	
6,400.00	6,353.46	6,384.84	6,363.46	23.63	22.47	89.67	-202.95	1,214.29	1,650.03	1,605.04	44.99	36.674	
6,500.00	6,453.46	6,484.84	6,463.46	23.96	22.82	89.67	-202.95	1,214.29	1,650.03	1,604.35	45.69	36.117	
6,600.00	6,553.46	6,584.84	6,563.46	24.30	23.17	89.67	-202.95	1,214.29	1,650.03	1,603.65	46.38	35.576	
6,700.00	6,653.46	6,684.84	6,663.46	24.63	23.52	89.67	-202.95	1,214.29	1,650.03	1,602.96	47.08	35.050	
6,800.00	6,753.46	6,784.84	6,763.46	24.96	23.87	89.67	-202.95	1,214.29	1,650.03	1,602.26	47.77	34.539	
6,900.00	6,853.46	6,884.84	6,863.46	25.30	24.22	89.67	-202.95	1,214.29	1,650.03	1,601.57	48.47	34.043	
7,000.00	6,953.46	6,984.84	6,963.46	25.64	24.57	89.67	-202.95	1,214.29	1,650.03	1,600.87	49.17	33.560	
7,100.00	7,053.46	7,084.84	7,063.46	25.97	24.92	89.67	-202.95	1,214.29	1,650.03	1,600.17	49.86	33.091	
7,200.00	7,153.46	7,184.84	7,163.46	26.31	25.27	89.67	-202.95	1,214.29	1,650.03	1,599.47	50.56	32.633	
7,300.00	7,253.46	7,284.84	7,263.46	26.65	25.62	89.67	-202.95	1,214.29	1,650.03	1,598.77	51.26	32.189	
7,400.00	7,353.46	7,384.84	7,363.46	26.98	25.97	89.67	-202.95	1,214.29	1,650.03	1,598.07	51.96	31.755	
7,500.00	7,453.46	7,484.84	7,463.46	27.32	26.33	89.67	-202.95	1,214.29	1,650.03	1,597.37	52.66	31.333	
7,600.00	7,553.46	7,584.84	7,563.46	27.66	26.68	89.67	-202.95	1,214.29	1,650.03	1,596.67	53.36	30.922	
7,700.00	7,653.46	7,684.84	7,663.46	28.00	27.03	89.67	-202.95	1,214.29	1,650.03	1,595.97	54.06	30.521	
7,800.00	7,753.46	7,784.84	7,763.46	28.34	27.38	89.67	-202.95	1,214.29	1,650.03	1,595.27	54.76	30.130	
7,900.00	7,853.46	7,884.84	7,863.46	28.68	27.74	89.67	-202.95	1,214.29	1,650.03	1,594.57	55.46	29.749	
8,000.00	7,953.46	7,984.84	7,963.46	29.02	28.09	89.67	-202.95	1,214.29	1,650.03	1,593.87	56.17	29.378	
8,100.00	8,053.46	8,084.84	8,063.46	29.36	28.44	89.67	-202.95	1,214.29	1,650.03	1,593.17	56.87	29.015	
8,200.00	8,153.46	8,184.84	8,163.46	29.71	28.79	89.67	-202.95	1,214.29	1,650.03	1,592.46	57.57	28.661	
8,300.00	8,253.46	8,284.84	8,263.46	30.05	29.15	89.67	-202.95	1,214.29	1,650.03	1,591.76	58.27	28.315	
8,400.00	8,353.46	8,384.84	8,363.46	30.39	29.50	89.67	-202.95	1,214.29	1,650.03	1,591.06	58.98	27.977	
8,500.00	8,453.46	8,484.84	8,463.46	30.73	29.85	89.67	-202.95	1,214.29	1,650.03	1,590.35	59.68	27.647	
8,600.00	8,553.46	8,584.84	8,563.46	31.08	30.21	89.67	-202.95	1,214.29	1,650.03	1,589.65	60.39	27.325	
8,700.00	8,653.46	8,684.84	8,663.46	31.42	30.56	89.67	-202.95	1,214.29	1,650.03	1,588.94	61.09	27.010	
8,800.00	8,753.46	8,784.84	8,763.46	31.76	30.92	89.67	-202.95	1,214.29	1,650.03	1,588.24	61.79	26.702	
8,900.00	8,853.46	8,884.84	8,863.46	32.11	31.27	89.67	-202.95	1,214.29	1,650.03	1,587.54	62.50	26.401	
9,000.00	8,953.46	8,984.84	8,963.46	32.45	31.62	89.67	-202.95	1,214.29	1,650.03	1,586.83	63.20	26.106	
9,100.00	9,053.46	9,084.84	9,063.46	32.80	31.98	89.67	-202.95	1,214.29	1,650.03	1,586.12	63.91	25.818	
9,200.00	9,153.46	9,184.84	9,163.46	33.14	32.33	89.67	-202.95	1,214.29	1,650.03	1,585.42	64.62	25.536	
9,300.00	9,253.46	9,284.84	9,263.46	33.49	32.69	89.67	-202.95	1,214.29	1,650.03	1,584.71	65.32	25.260	
9,400.00	9,353.46	9,384.84	9,363.46	33.83	33.04	89.67	-202.95	1,214.29	1,650.03	1,584.01	66.03	24.990	
9,500.00	9,453.46	9,484.84	9,463.46	34.18	33.39	89.67	-202.95	1,214.29	1,650.03	1,583.30	66.73	24.726	
9,600.00	9,553.46	9,584.84	9,563.46	34.53	33.75	89.67	-202.95	1,214.29	1,650.03	1,582.59	67.44	24.466	
9,700.00	9,653.46	9,684.84	9,663.46	34.87	34.10	89.67	-202.95	1,214.29	1,650.03	1,581.89	68.15	24.213	
9,800.00	9,753.46	9,784.84	9,763.46	35.22	34.46	89.67	-202.95	1,214.29	1,650.03	1,581.18	68.85	23.964	
9,900.00	9,853.46	9,884.84	9,863.46	35.57	34.81	89.67	-202.95	1,214.29	1,650.03	1,580.47	69.56	23.720	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 505H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,955.59	9,909.05	9,940.43	9,919.05	35.76	35.01	89.67	-202.95	1,214.29	1,650.03	1,580.08	69.95	23.587	
10,000.00	9,953.41	9,984.87	9,963.49	35.91	35.17	90.10	-202.77	1,214.28	1,650.04	1,579.77	70.27	23.482	
10,050.00	10,003.03	10,035.18	10,013.66	36.08	35.34	90.19	-199.29	1,214.26	1,650.04	1,579.44	70.61	23.369	
10,100.00	10,051.93	10,085.72	10,063.56	36.23	35.51	90.28	-191.39	1,214.21	1,650.05	1,579.12	70.93	23.262	
10,150.00	10,099.75	10,136.49	10,112.80	36.38	35.66	90.37	-179.05	1,214.13	1,650.07	1,578.82	71.24	23.161	
10,200.00	10,146.11	10,187.49	10,160.96	36.52	35.82	90.45	-162.32	1,214.02	1,650.09	1,578.55	71.54	23.065	
10,250.00	10,190.67	10,238.71	10,207.64	36.64	35.96	90.54	-141.28	1,213.88	1,650.11	1,578.29	71.82	22.976	
10,300.00	10,233.09	10,290.15	10,252.43	36.75	36.09	90.61	-116.04	1,213.71	1,650.13	1,578.04	72.09	22.891	
10,350.00	10,273.04	10,341.79	10,294.95	36.85	36.22	90.68	-86.76	1,213.52	1,650.15	1,577.81	72.34	22.810	
10,400.00	10,310.22	10,393.63	10,334.80	36.94	36.34	90.75	-53.64	1,213.30	1,650.18	1,577.59	72.59	22.733	
10,450.00	10,344.35	10,445.65	10,371.62	37.01	36.46	90.81	-16.92	1,213.05	1,650.20	1,577.37	72.83	22.658	
10,500.00	10,375.16	10,497.83	10,405.06	37.07	36.58	90.87	23.11	1,212.79	1,650.22	1,577.15	73.07	22.584	
10,550.00	10,402.43	10,550.16	10,434.80	37.11	36.70	90.92	66.15	1,212.50	1,650.24	1,576.94	73.31	22.511	
10,600.00	10,425.94	10,602.62	10,460.55	37.15	36.82	90.96	111.83	1,212.20	1,650.26	1,576.71	73.55	22.437	
10,650.00	10,445.52	10,655.18	10,482.05	37.19	36.94	90.99	159.78	1,211.88	1,650.28	1,576.48	73.80	22.362	
10,700.00	10,461.01	10,707.83	10,499.09	37.23	37.08	91.02	209.58	1,211.55	1,650.29	1,576.24	74.05	22.285	
10,750.00	10,472.31	10,760.55	10,511.50	37.30	37.21	91.03	260.79	1,211.21	1,650.30	1,575.98	74.32	22.206	
10,800.00	10,479.31	10,813.30	10,519.16	37.41	37.35	91.04	312.96	1,210.86	1,650.31	1,575.72	74.59	22.125	
10,850.00	10,481.98	10,866.06	10,521.99	37.55	37.49	91.04	365.63	1,210.52	1,650.31	1,575.44	74.87	22.042	
10,857.90	10,482.00	10,874.31	10,522.00	37.57	37.52	91.04	373.87	1,210.46	1,650.31	1,575.39	74.91	22.029	
10,858.49	10,482.00	10,874.91	10,521.99	37.57	37.52	91.04	374.47	1,210.46	1,650.31	1,575.39	74.92	22.028	
10,900.00	10,481.79	10,916.41	10,521.83	37.70	37.65	91.04	415.98	1,210.18	1,650.31	1,575.14	75.17	21.955	
11,000.00	10,481.28	11,016.41	10,521.43	38.06	37.99	91.05	515.97	1,209.52	1,650.31	1,574.45	75.86	21.754	
11,100.00	10,480.78	11,116.41	10,521.03	38.49	38.41	91.05	615.97	1,208.85	1,650.31	1,573.62	76.69	21.519	
11,200.00	10,480.27	11,216.41	10,520.62	38.98	38.89	91.05	715.97	1,208.19	1,650.31	1,572.66	77.65	21.252	
11,300.00	10,479.77	11,316.41	10,520.22	39.53	39.44	91.06	815.96	1,207.53	1,650.32	1,571.57	78.75	20.958	
11,400.00	10,479.26	11,416.41	10,519.82	40.14	40.04	91.06	915.96	1,206.86	1,650.32	1,570.36	79.96	20.640	
11,500.00	10,478.76	11,516.41	10,519.42	40.81	40.71	91.06	1,015.96	1,206.20	1,650.32	1,569.03	81.29	20.302	
11,600.00	10,478.25	11,616.41	10,519.02	41.54	41.43	91.07	1,115.95	1,205.54	1,650.32	1,567.59	82.73	19.948	
11,700.00	10,477.75	11,716.41	10,518.62	42.31	42.20	91.07	1,215.95	1,204.88	1,650.33	1,566.05	84.28	19.582	
11,800.00	10,477.24	11,816.41	10,518.22	43.14	43.02	91.08	1,315.95	1,204.21	1,650.33	1,564.40	85.92	19.207	
11,900.00	10,476.74	11,916.41	10,517.81	44.01	43.89	91.08	1,415.94	1,203.55	1,650.33	1,562.67	87.67	18.825	
12,000.00	10,476.23	12,016.41	10,517.41	44.92	44.81	91.08	1,515.94	1,202.89	1,650.33	1,560.84	89.50	18.440	
12,100.00	10,475.73	12,116.41	10,517.01	45.88	45.76	91.09	1,615.94	1,202.22	1,650.34	1,558.93	91.41	18.055	
12,200.00	10,475.22	12,216.41	10,516.61	46.87	46.76	91.09	1,715.94	1,201.56	1,650.34	1,556.94	93.40	17.670	
12,300.00	10,474.72	12,316.41	10,516.21	47.90	47.79	91.09	1,815.93	1,200.90	1,650.34	1,554.88	95.46	17.288	
12,400.00	10,474.22	12,416.41	10,515.81	48.97	48.86	91.10	1,915.93	1,200.23	1,650.35	1,552.75	97.60	16.910	
12,500.00	10,473.71	12,516.41	10,515.41	50.06	49.96	91.10	2,015.93	1,199.57	1,650.35	1,550.55	99.80	16.537	
12,600.00	10,473.21	12,616.41	10,515.00	51.19	51.08	91.10	2,115.92	1,198.91	1,650.35	1,548.30	102.05	16.171	
12,700.00	10,472.70	12,716.41	10,514.60	52.34	52.24	91.11	2,215.92	1,198.24	1,650.36	1,545.99	104.37	15.813	
12,800.00	10,472.20	12,816.41	10,514.20	53.52	53.42	91.11	2,315.92	1,197.58	1,650.36	1,543.62	106.74	15.462	
12,900.00	10,471.70	12,916.41	10,513.80	54.73	54.63	91.11	2,415.91	1,196.92	1,650.36	1,541.21	109.15	15.120	
13,000.00	10,471.19	13,016.41	10,513.40	55.96	55.86	91.12	2,515.91	1,196.25	1,650.37	1,538.75	111.61	14.786	
13,100.00	10,470.69	13,116.41	10,513.00	57.21	57.11	91.12	2,615.91	1,195.59	1,650.37	1,536.25	114.12	14.462	
13,200.00	10,470.19	13,216.41	10,512.60	58.48	58.39	91.13	2,715.91	1,194.93	1,650.38	1,533.71	116.67	14.146	
13,300.00	10,469.68	13,316.41	10,512.19	59.77	59.68	91.13	2,815.90	1,194.26	1,650.38	1,531.13	119.25	13.840	
13,400.00	10,469.18	13,416.41	10,511.79	61.07	60.99	91.13	2,915.90	1,193.60	1,650.38	1,528.52	121.87	13.542	
13,500.00	10,468.68	13,516.41	10,511.39	62.40	62.31	91.14	3,015.90	1,192.94	1,650.39	1,525.87	124.52	13.254	
13,600.00	10,468.18	13,616.41	10,510.99	63.73	63.65	91.14	3,115.89	1,192.27	1,650.39	1,523.19	127.20	12.975	
13,700.00	10,467.67	13,716.41	10,510.59	65.09	65.01	91.14	3,215.89	1,191.61	1,650.40	1,520.48	129.91	12.704	
13,800.00	10,467.17	13,816.41	10,510.19	66.46	66.38	91.15	3,315.89	1,190.95	1,650.40	1,517.75	132.65	12.442	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 505H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,466.67	13,916.41	10,509.79	67.83	67.76	91.15	3,415.88	1,190.28	1,650.41	1,514.99	135.42	12.188	
14,000.00	10,466.17	14,016.41	10,509.38	69.23	69.15	91.15	3,515.88	1,189.62	1,650.41	1,512.21	138.21	11.942	
14,100.00	10,465.67	14,116.41	10,508.98	70.63	70.56	91.16	3,615.88	1,188.96	1,650.42	1,509.40	141.02	11.704	
14,200.00	10,465.17	14,216.41	10,508.58	72.04	71.98	91.16	3,715.87	1,188.29	1,650.42	1,506.57	143.85	11.473	
14,300.00	10,464.66	14,316.41	10,508.18	73.47	73.40	91.16	3,815.87	1,187.63	1,650.43	1,503.72	146.70	11.250	
14,400.00	10,464.16	14,416.41	10,507.78	74.90	74.84	91.17	3,915.87	1,186.97	1,650.43	1,500.86	149.57	11.034	
14,500.00	10,463.66	14,516.41	10,507.38	76.34	76.28	91.17	4,015.87	1,186.31	1,650.44	1,497.97	152.46	10.825	
14,600.00	10,463.16	14,616.41	10,506.98	77.80	77.73	91.17	4,115.86	1,185.64	1,650.44	1,495.07	155.37	10.623	
14,700.00	10,462.66	14,716.41	10,506.57	79.26	79.20	91.18	4,215.86	1,184.98	1,650.45	1,492.15	158.29	10.426	
14,800.00	10,462.16	14,816.41	10,506.17	80.72	80.66	91.18	4,315.86	1,184.32	1,650.45	1,489.22	161.23	10.237	
14,900.00	10,461.66	14,916.41	10,505.77	82.20	82.14	91.18	4,415.85	1,183.65	1,650.46	1,486.28	164.18	10.053	
15,000.00	10,461.16	15,016.41	10,505.37	83.68	83.62	91.19	4,515.85	1,182.99	1,650.47	1,483.32	167.15	9.874	
15,100.00	10,460.66	15,116.41	10,504.97	85.16	85.11	91.19	4,615.85	1,182.33	1,650.47	1,480.34	170.13	9.701	
15,200.00	10,460.16	15,216.41	10,504.57	86.66	86.61	91.19	4,715.84	1,181.66	1,650.48	1,477.36	173.12	9.534	
15,300.00	10,459.66	15,316.41	10,504.17	88.16	88.11	91.20	4,815.84	1,181.00	1,650.48	1,474.36	176.12	9.371	
15,400.00	10,459.16	15,416.41	10,503.76	89.66	89.61	91.20	4,915.84	1,180.34	1,650.49	1,471.36	179.13	9.214	
15,500.00	10,458.66	15,516.41	10,503.36	91.17	91.13	91.20	5,015.83	1,179.67	1,650.49	1,468.34	182.15	9.061	
15,600.00	10,458.16	15,616.41	10,502.96	92.69	92.64	91.21	5,115.83	1,179.01	1,650.50	1,465.31	185.19	8.913	
15,700.00	10,457.66	15,716.41	10,502.56	94.21	94.16	91.21	5,215.83	1,178.35	1,650.51	1,462.28	188.23	8.769	
15,800.00	10,457.16	15,816.41	10,502.16	95.73	95.69	91.22	5,315.83	1,177.68	1,650.51	1,459.23	191.28	8.629	
15,900.00	10,456.66	15,916.41	10,501.76	97.26	97.22	91.22	5,415.82	1,177.02	1,650.52	1,456.18	194.34	8.493	
16,000.00	10,456.16	16,016.41	10,501.36	98.79	98.75	91.22	5,515.82	1,176.36	1,650.53	1,453.12	197.41	8.361	
16,100.00	10,455.66	16,116.41	10,500.95	100.33	100.29	91.23	5,615.82	1,175.69	1,650.53	1,450.05	200.48	8.233	
16,200.00	10,455.16	16,216.41	10,500.55	101.87	101.83	91.23	5,715.81	1,175.03	1,650.54	1,446.97	203.57	8.108	
16,300.00	10,454.67	16,316.41	10,500.15	103.41	103.38	91.23	5,815.81	1,174.37	1,650.55	1,443.89	206.66	7.987	
16,400.00	10,454.17	16,416.41	10,499.75	104.96	104.93	91.24	5,915.81	1,173.70	1,650.55	1,440.80	209.75	7.869	
16,500.00	10,453.67	16,516.41	10,499.35	106.51	106.48	91.24	6,015.80	1,173.04	1,650.56	1,437.70	212.86	7.754	
16,600.00	10,453.17	16,616.41	10,498.95	108.07	108.03	91.24	6,115.80	1,172.38	1,650.57	1,434.60	215.97	7.643	
16,700.00	10,452.67	16,716.41	10,498.55	109.62	109.59	91.25	6,215.80	1,171.71	1,650.58	1,431.49	219.08	7.534	
16,800.00	10,452.17	16,816.41	10,498.14	111.18	111.15	91.25	6,315.80	1,171.05	1,650.58	1,428.38	222.20	7.428	
16,900.00	10,451.68	16,916.41	10,497.74	112.74	112.72	91.25	6,415.79	1,170.39	1,650.59	1,425.26	225.33	7.325	
17,000.00	10,451.18	17,016.41	10,497.34	114.31	114.28	91.26	6,515.79	1,169.72	1,650.60	1,422.14	228.46	7.225	
17,100.00	10,450.68	17,116.41	10,496.94	115.88	115.85	91.26	6,615.79	1,169.06	1,650.61	1,419.01	231.60	7.127	
17,200.00	10,450.18	17,216.41	10,496.54	117.45	117.42	91.26	6,715.78	1,168.40	1,650.61	1,415.87	234.74	7.032	
17,300.00	10,449.69	17,316.41	10,496.14	119.02	118.99	91.27	6,815.78	1,167.73	1,650.62	1,412.73	237.89	6.939	
17,400.00	10,449.19	17,416.41	10,495.74	120.60	120.57	91.27	6,915.78	1,167.07	1,650.63	1,409.59	241.04	6.848	
17,500.00	10,448.69	17,516.41	10,495.33	122.17	122.15	91.27	7,015.77	1,166.41	1,650.64	1,406.44	244.19	6.760	
17,600.00	10,448.20	17,616.41	10,494.93	123.75	123.73	91.28	7,115.77	1,165.75	1,650.65	1,403.29	247.35	6.673	
17,700.00	10,447.70	17,716.41	10,494.53	125.33	125.31	91.28	7,215.77	1,165.08	1,650.65	1,400.14	250.51	6.589	
17,800.00	10,447.20	17,816.41	10,494.13	126.91	126.89	91.28	7,315.76	1,164.42	1,650.66	1,396.98	253.68	6.507	
17,900.00	10,446.71	17,916.41	10,493.73	128.50	128.48	91.29	7,415.76	1,163.76	1,650.67	1,393.82	256.85	6.427	
18,000.00	10,446.21	18,016.41	10,493.33	130.09	130.07	91.29	7,515.76	1,163.09	1,650.68	1,390.65	260.03	6.348	
18,100.00	10,445.71	18,116.41	10,492.93	131.67	131.65	91.29	7,615.76	1,162.43	1,650.69	1,387.48	263.20	6.272	
18,200.00	10,445.22	18,216.41	10,492.52	133.26	133.25	91.29	7,715.75	1,161.77	1,650.70	1,384.31	266.38	6.197	
18,300.00	10,444.72	18,316.41	10,492.12	134.86	134.84	91.30	7,815.75	1,161.10	1,650.70	1,381.14	269.57	6.124	
18,400.00	10,444.23	18,416.41	10,491.72	136.45	136.43	91.30	7,915.75	1,160.44	1,650.71	1,377.96	272.76	6.052	
18,500.00	10,443.73	18,516.41	10,491.32	138.04	138.03	91.30	8,015.74	1,159.78	1,650.72	1,374.78	275.95	5.982	
18,600.00	10,443.24	18,616.41	10,490.92	139.64	139.62	91.31	8,115.74	1,159.11	1,650.73	1,371.59	279.14	5.914	
18,700.00	10,442.74	18,716.41	10,490.52	141.24	141.22	91.31	8,215.74	1,158.45	1,650.74	1,368.41	282.33	5.847	
18,800.00	10,442.25	18,816.41	10,490.12	142.84	142.82	91.31	8,315.73	1,157.79	1,650.75	1,365.22	285.53	5.781	
18,900.00	10,441.75	18,916.41	10,489.71	144.44	144.42	91.32	8,415.73	1,157.12	1,650.76	1,362.03	288.73	5.717	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 505H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	10,441.26	19,016.41	10,489.31	146.04	146.02	91.32	8,515.73	1,156.46	1,650.77	1,358.83	291.94	5.655	
19,100.00	10,440.76	19,116.41	10,488.91	147.64	147.63	91.32	8,615.73	1,155.80	1,650.78	1,355.64	295.14	5.593	
19,200.00	10,440.27	19,216.41	10,488.51	149.24	149.23	91.33	8,715.72	1,155.13	1,650.79	1,352.44	298.35	5.533	
19,300.00	10,439.77	19,316.41	10,488.11	150.85	150.84	91.33	8,815.72	1,154.47	1,650.80	1,349.24	301.56	5.474	
19,400.00	10,439.28	19,416.41	10,487.71	152.45	152.44	91.33	8,915.72	1,153.81	1,650.81	1,346.04	304.77	5.417	
19,500.00	10,438.78	19,516.41	10,487.31	154.06	154.05	91.34	9,015.71	1,153.14	1,650.82	1,342.83	307.99	5.360	
19,600.00	10,438.29	19,616.41	10,486.90	155.67	155.66	91.34	9,115.71	1,152.48	1,650.83	1,339.63	311.20	5.305	
19,700.00	10,437.80	19,716.41	10,486.50	157.28	157.27	91.34	9,215.71	1,151.82	1,650.84	1,336.42	314.42	5.250	
19,800.00	10,437.30	19,816.41	10,486.10	158.89	158.88	91.35	9,315.70	1,151.15	1,650.85	1,333.21	317.64	5.197	
19,900.00	10,436.81	19,916.41	10,485.70	160.50	160.49	91.35	9,415.70	1,150.49	1,650.86	1,329.99	320.86	5.145	
20,000.00	10,436.32	20,016.41	10,485.30	162.11	162.10	91.35	9,515.70	1,149.83	1,650.87	1,326.78	324.09	5.094	
20,100.00	10,435.82	20,116.41	10,484.90	163.72	163.72	91.36	9,615.69	1,149.16	1,650.88	1,323.57	327.31	5.044	
20,200.00	10,435.33	20,216.41	10,484.50	165.34	165.33	91.36	9,715.69	1,148.50	1,650.89	1,320.35	330.54	4.995	
20,300.00	10,434.84	20,316.41	10,484.09	166.95	166.95	91.36	9,815.69	1,147.84	1,650.90	1,317.13	333.77	4.946	
20,400.00	10,434.34	20,416.41	10,483.69	168.57	168.56	91.37	9,915.69	1,147.17	1,650.91	1,313.91	337.00	4.899	
20,500.00	10,433.85	20,516.41	10,483.29	170.18	170.18	91.37	10,015.68	1,146.51	1,650.92	1,310.69	340.23	4.852	
20,600.00	10,433.36	20,616.41	10,482.89	171.80	171.80	91.37	10,115.68	1,145.85	1,650.93	1,307.47	343.47	4.807	
20,700.00	10,432.86	20,716.41	10,482.49	173.42	173.41	91.38	10,215.68	1,145.19	1,650.94	1,304.24	346.70	4.762	
20,800.00	10,432.37	20,822.93	10,482.11	175.04	175.14	91.38	10,322.19	1,144.39	1,650.88	1,300.81	350.07	4.716	
20,871.15	10,432.02	20,888.62	10,482.00	176.19	176.20	91.39	10,387.88	1,143.69	1,650.61	1,298.35	352.26	4.686	
20,875.64	10,432.00	20,888.62	10,482.00	176.26	176.20	91.39	10,387.88	1,143.69	1,650.61	1,298.30	352.31	4.685 SF	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 601H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	14.00	14.00	0.00	0.02	87.30	130.91	2,778.82	2,781.90				
100.00	100.00	114.00	114.00	0.14	0.18	87.30	130.91	2,778.82	2,781.90	2,781.58	0.32	8,695.184	
200.00	200.00	214.00	214.00	0.49	0.54	87.30	130.91	2,778.82	2,781.90	2,780.87	1.04	2,682.959	
300.00	300.00	314.00	314.00	0.85	0.90	87.30	130.91	2,778.82	2,781.90	2,780.15	1.75	1,586.195	
400.00	400.00	414.00	414.00	1.21	1.26	87.30	130.91	2,778.82	2,781.90	2,779.43	2.47	1,125.928	
500.00	500.00	514.00	514.00	1.57	1.62	87.30	130.91	2,778.82	2,781.90	2,778.72	3.19	872.697	
600.00	600.00	614.00	614.00	1.93	1.98	87.30	130.91	2,778.82	2,781.90	2,778.00	3.90	712.459	
700.00	700.00	714.00	714.00	2.29	2.34	87.30	130.91	2,778.82	2,781.90	2,777.28	4.62	601.936	
800.00	800.00	814.00	814.00	2.64	2.69	87.30	130.91	2,778.82	2,781.90	2,776.57	5.34	521.099	
900.00	900.00	914.00	914.00	3.00	3.05	87.30	130.91	2,778.82	2,781.90	2,775.85	6.06	459.403	
1,000.00	1,000.00	1,014.00	1,014.00	3.36	3.41	87.30	130.91	2,778.82	2,781.90	2,775.13	6.77	410.769	
1,100.00	1,100.00	1,114.00	1,114.00	3.72	3.77	87.30	130.91	2,778.82	2,781.90	2,774.42	7.49	371.447	
1,200.00	1,200.00	1,214.00	1,214.00	4.08	4.13	87.30	130.91	2,778.82	2,781.90	2,773.70	8.21	338.996	
1,300.00	1,300.00	1,314.00	1,314.00	4.44	4.49	87.30	130.91	2,778.82	2,781.90	2,772.98	8.92	311.759	
1,400.00	1,400.00	1,414.00	1,414.00	4.80	4.84	87.30	130.91	2,778.82	2,781.90	2,772.26	9.64	288.573	
1,500.00	1,500.00	1,514.00	1,514.00	5.15	5.20	87.30	130.91	2,778.82	2,781.90	2,771.55	10.36	268.598	
1,600.00	1,600.00	1,614.00	1,614.00	5.51	5.56	87.30	130.91	2,778.82	2,781.90	2,770.83	11.07	251.209	
1,700.00	1,700.00	1,714.00	1,714.00	5.87	5.92	87.30	130.91	2,778.82	2,781.90	2,770.11	11.79	235.934	
1,800.00	1,800.00	1,814.00	1,814.00	6.23	6.28	87.30	130.91	2,778.82	2,781.90	2,769.40	12.51	222.411	
1,900.00	1,900.00	1,914.00	1,914.00	6.59	6.64	87.30	130.91	2,778.82	2,781.90	2,768.68	13.22	210.353	
2,000.00	2,000.00	2,014.00	2,014.00	6.95	7.00	87.30	130.91	2,778.82	2,781.90	2,767.96	13.94	199.536	
2,100.00	2,100.00	2,114.00	2,114.00	7.30	7.35	87.30	130.91	2,778.82	2,781.90	2,767.25	14.66	189.777	
2,200.00	2,200.00	2,301.10	2,301.08	7.66	8.01	87.32	130.02	2,777.28	2,781.69	2,766.02	15.67	177.543	
2,300.00	2,299.98	2,829.41	2,824.39	8.01	9.85	-156.19	96.38	2,719.41	2,770.14	2,752.57	17.57	157.676	
2,400.00	2,399.84	2,928.17	2,920.99	8.34	10.22	-156.14	86.06	2,701.66	2,756.46	2,738.21	18.24	151.096	
2,500.00	2,499.45	3,027.41	3,018.07	8.68	10.61	-156.10	75.69	2,683.82	2,745.95	2,727.03	18.93	145.076	
2,600.00	2,598.70	3,127.02	3,115.50	9.03	11.01	-156.06	65.29	2,665.92	2,738.64	2,719.02	19.62	139.572	
2,700.00	2,697.47	3,226.87	3,213.17	9.38	11.41	-156.02	54.86	2,647.97	2,734.52	2,714.20	20.32	134.545	
2,779.13	2,775.19	3,305.97	3,290.54	9.67	11.74	-155.99	46.59	2,633.75	2,733.52	2,712.64	20.89	130.878	
2,800.00	2,795.62	3,326.84	3,310.95	9.75	11.82	-155.98	44.41	2,630.00	2,733.59	2,712.56	21.04	129.954	
2,900.00	2,893.44	3,426.83	3,408.75	10.13	12.24	-155.95	33.96	2,612.02	2,734.26	2,712.50	21.75	125.691	
3,000.00	2,991.25	3,526.82	3,506.56	10.51	12.66	-155.92	23.52	2,594.05	2,734.92	2,712.44	22.48	121.659	
3,100.00	3,089.07	3,626.80	3,604.36	10.91	13.09	-155.90	13.07	2,576.08	2,735.59	2,712.38	23.21	117.845	
3,200.00	3,186.88	3,726.79	3,702.16	11.31	13.52	-155.87	2.62	2,558.10	2,736.26	2,712.31	23.95	114.235	
3,300.00	3,284.70	3,826.78	3,799.97	11.72	13.96	-155.84	-7.82	2,540.13	2,736.93	2,712.23	24.70	110.816	
3,400.00	3,382.51	3,926.77	3,897.77	12.14	14.40	-155.81	-18.27	2,522.16	2,737.60	2,712.15	25.45	107.575	
3,500.00	3,480.33	4,026.76	3,995.57	12.56	14.85	-155.78	-28.72	2,504.19	2,738.27	2,712.06	26.20	104.501	
3,600.00	3,578.14	4,126.75	4,093.38	12.99	15.29	-155.75	-39.16	2,486.21	2,738.94	2,711.98	26.96	101.582	
3,700.00	3,675.96	4,226.74	4,191.18	13.42	15.74	-155.72	-49.61	2,468.24	2,739.61	2,711.88	27.73	98.809	
3,800.00	3,773.77	4,326.72	4,288.99	13.86	16.20	-155.70	-60.06	2,450.27	2,740.28	2,711.79	28.49	96.173	
3,900.00	3,871.59	4,426.71	4,386.79	14.30	16.65	-155.67	-70.50	2,432.29	2,740.95	2,711.69	29.26	93.663	
4,000.00	3,969.40	4,526.70	4,484.59	14.75	17.11	-155.64	-80.95	2,414.32	2,741.63	2,711.59	30.04	91.273	
4,100.00	4,067.22	4,626.69	4,582.40	15.19	17.57	-155.61	-91.40	2,396.35	2,742.30	2,711.49	30.81	88.994	
4,200.00	4,165.03	4,726.68	4,680.20	15.64	18.03	-155.58	-101.85	2,378.37	2,742.98	2,711.38	31.59	86.819	
4,300.00	4,262.84	4,826.67	4,778.00	16.10	18.49	-155.55	-112.29	2,360.40	2,743.65	2,711.27	32.38	84.743	
4,400.00	4,360.66	4,926.66	4,875.81	16.55	18.96	-155.53	-122.74	2,342.43	2,744.33	2,711.17	33.16	82.759	
4,500.00	4,458.47	5,026.64	4,973.61	17.01	19.42	-155.50	-133.19	2,324.45	2,745.00	2,711.06	33.95	80.861	
4,529.32	4,487.15	5,055.96	5,002.28	17.14	19.56	-155.49	-136.25	2,319.18	2,745.20	2,711.02	34.18	80.320	
4,600.00	4,556.46	5,126.63	5,071.41	17.46	19.89	-155.46	-143.63	2,306.48	2,744.89	2,710.15	34.73	79.025	
4,700.00	4,655.06	5,226.52	5,169.12	17.90	20.36	-155.37	-154.07	2,288.52	2,741.74	2,706.22	35.52	77.193	
4,800.00	4,754.18	5,326.21	5,266.63	18.31	20.83	-155.22	-164.48	2,270.60	2,735.42	2,699.12	36.30	75.365	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 601H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	5,400.00	5,338.93	18.69	21.17	-155.06	-171.89	2,257.86	2,726.62	2,689.63	36.98	73.725	
5,000.00	4,953.50	5,441.12	5,379.37	19.05	21.35	-154.91	-175.62	2,251.45	2,716.19	2,678.64	37.55	72.338	
5,100.00	5,053.46	5,500.00	5,437.46	19.39	21.61	-154.72	-180.45	2,243.13	2,704.34	2,666.19	38.15	70.880	
5,129.32	5,082.78	5,500.00	5,437.46	19.49	21.61	89.32	-180.45	2,243.13	2,700.62	2,662.36	38.27	70.573	
5,200.00	5,153.46	5,549.67	5,486.61	19.71	21.82	89.39	-184.06	2,236.93	2,691.78	2,653.08	38.70	69.549	
5,300.00	5,253.46	5,600.00	5,536.53	20.04	22.03	89.46	-187.28	2,231.39	2,680.76	2,641.52	39.24	68.311	
5,400.00	5,353.46	5,659.11	5,595.29	20.36	22.26	89.53	-190.50	2,225.85	2,671.40	2,631.59	39.80	67.116	
5,500.00	5,453.46	5,700.00	5,636.01	20.68	22.42	89.57	-192.37	2,222.64	2,663.77	2,623.49	40.28	66.129	
5,600.00	5,553.46	5,769.38	5,705.21	21.00	22.67	89.62	-194.87	2,218.33	2,657.68	2,616.82	40.86	65.046	
5,700.00	5,653.46	5,824.72	5,760.48	21.33	22.87	89.65	-196.26	2,215.93	2,653.34	2,611.97	41.37	64.139	
5,800.00	5,753.46	5,900.00	5,835.73	21.65	23.12	89.67	-197.29	2,214.16	2,650.80	2,608.85	41.95	63.187	
5,900.00	5,853.46	5,940.50	5,876.23	21.98	23.25	89.68	-197.44	2,213.91	2,649.69	2,607.32	42.37	62.535	
5,936.54	5,889.99	5,968.26	5,903.99	22.10	23.33	89.68	-197.44	2,213.91	2,649.68	2,607.10	42.58	62.233	
6,000.00	5,953.46	6,031.73	5,967.46	22.31	23.53	89.68	-197.44	2,213.91	2,649.68	2,606.67	43.00	61.619	
6,100.00	6,053.46	6,131.73	6,067.46	22.64	23.84	89.68	-197.44	2,213.91	2,649.68	2,606.00	43.67	60.673	
6,200.00	6,153.46	6,231.73	6,167.46	22.97	24.15	89.68	-197.44	2,213.91	2,649.68	2,605.33	44.34	59.754	
6,300.00	6,253.46	6,331.73	6,267.46	23.30	24.46	89.68	-197.44	2,213.91	2,649.68	2,604.66	45.02	58.861	
6,400.00	6,353.46	6,431.73	6,367.46	23.63	24.77	89.68	-197.44	2,213.91	2,649.68	2,603.99	45.69	57.992	
6,500.00	6,453.46	6,531.73	6,467.46	23.96	25.09	89.68	-197.44	2,213.91	2,649.68	2,603.31	46.37	57.147	
6,600.00	6,553.46	6,631.73	6,567.46	24.30	25.40	89.68	-197.44	2,213.91	2,649.68	2,602.63	47.04	56.325	
6,700.00	6,653.46	6,731.73	6,667.46	24.63	25.72	89.68	-197.44	2,213.91	2,649.68	2,601.96	47.72	55.524	
6,800.00	6,753.46	6,831.73	6,767.46	24.96	26.04	89.68	-197.44	2,213.91	2,649.68	2,601.28	48.40	54.745	
6,900.00	6,853.46	6,931.73	6,867.46	25.30	26.36	89.68	-197.44	2,213.91	2,649.68	2,600.60	49.08	53.987	
7,000.00	6,953.46	7,031.73	6,967.46	25.64	26.68	89.68	-197.44	2,213.91	2,649.68	2,599.91	49.76	53.248	
7,100.00	7,053.46	7,131.73	7,067.46	25.97	27.00	89.68	-197.44	2,213.91	2,649.68	2,599.23	50.44	52.527	
7,200.00	7,153.46	7,231.73	7,167.46	26.31	27.32	89.68	-197.44	2,213.91	2,649.68	2,598.55	51.13	51.826	
7,300.00	7,253.46	7,331.73	7,267.46	26.65	27.64	89.68	-197.44	2,213.91	2,649.68	2,597.87	51.81	51.141	
7,400.00	7,353.46	7,431.73	7,367.46	26.98	27.96	89.68	-197.44	2,213.91	2,649.68	2,597.18	52.50	50.474	
7,500.00	7,453.46	7,531.73	7,467.46	27.32	28.29	89.68	-197.44	2,213.91	2,649.68	2,596.49	53.18	49.823	
7,600.00	7,553.46	7,631.73	7,567.46	27.66	28.61	89.68	-197.44	2,213.91	2,649.68	2,595.81	53.87	49.188	
7,700.00	7,653.46	7,731.73	7,667.46	28.00	28.94	89.68	-197.44	2,213.91	2,649.68	2,595.12	54.56	48.568	
7,800.00	7,753.46	7,831.73	7,767.46	28.34	29.27	89.68	-197.44	2,213.91	2,649.68	2,594.43	55.24	47.964	
7,900.00	7,853.46	7,931.73	7,867.46	28.68	29.59	89.68	-197.44	2,213.91	2,649.68	2,593.74	55.93	47.373	
8,000.00	7,953.46	8,031.73	7,967.46	29.02	29.92	89.68	-197.44	2,213.91	2,649.68	2,593.05	56.62	46.796	
8,100.00	8,053.46	8,131.73	8,067.46	29.36	30.25	89.68	-197.44	2,213.91	2,649.68	2,592.36	57.31	46.232	
8,200.00	8,153.46	8,231.73	8,167.46	29.71	30.58	89.68	-197.44	2,213.91	2,649.68	2,591.67	58.00	45.682	
8,300.00	8,253.46	8,331.73	8,267.46	30.05	30.91	89.68	-197.44	2,213.91	2,649.68	2,590.98	58.69	45.144	
8,400.00	8,353.46	8,431.73	8,367.46	30.39	31.24	89.68	-197.44	2,213.91	2,649.68	2,590.29	59.39	44.617	
8,500.00	8,453.46	8,531.73	8,467.46	30.73	31.57	89.68	-197.44	2,213.91	2,649.68	2,589.60	60.08	44.103	
8,600.00	8,553.46	8,631.73	8,567.46	31.08	31.90	89.68	-197.44	2,213.91	2,649.68	2,588.90	60.77	43.600	
8,700.00	8,653.46	8,731.73	8,667.46	31.42	32.24	89.68	-197.44	2,213.91	2,649.68	2,588.21	61.47	43.108	
8,800.00	8,753.46	8,831.73	8,767.46	31.76	32.57	89.68	-197.44	2,213.91	2,649.68	2,587.52	62.16	42.626	
8,900.00	8,853.46	8,931.73	8,867.46	32.11	32.90	89.68	-197.44	2,213.91	2,649.68	2,586.82	62.86	42.155	
9,000.00	8,953.46	9,031.73	8,967.46	32.45	33.24	89.68	-197.44	2,213.91	2,649.68	2,586.13	63.55	41.694	
9,100.00	9,053.46	9,131.73	9,067.46	32.80	33.57	89.68	-197.44	2,213.91	2,649.68	2,585.43	64.25	41.243	
9,200.00	9,153.46	9,231.73	9,167.46	33.14	33.91	89.68	-197.44	2,213.91	2,649.68	2,584.73	64.94	40.800	
9,300.00	9,253.46	9,331.73	9,267.46	33.49	34.24	89.68	-197.44	2,213.91	2,649.68	2,584.04	65.64	40.367	
9,400.00	9,353.46	9,431.73	9,367.46	33.83	34.58	89.68	-197.44	2,213.91	2,649.68	2,583.34	66.34	39.943	
9,500.00	9,453.46	9,531.73	9,467.46	34.18	34.91	89.68	-197.44	2,213.91	2,649.68	2,582.64	67.03	39.528	
9,600.00	9,553.46	9,631.73	9,567.46	34.53	35.25	89.68	-197.44	2,213.91	2,649.68	2,581.94	67.73	39.120	
9,700.00	9,653.46	9,731.73	9,667.46	34.87	35.59	89.68	-197.44	2,213.91	2,649.68	2,581.25	68.43	38.721	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 601H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,753.46	9,831.73	9,767.46	35.22	35.93	89.68	-197.44	2,213.91	2,649.68	2,580.55	69.13	38.330	
9,900.00	9,853.46	9,931.73	9,867.46	35.57	36.26	89.68	-197.44	2,213.91	2,649.68	2,579.85	69.83	37.946	
9,955.59	9,909.05	9,987.32	9,923.05	35.76	36.45	89.68	-197.44	2,213.91	2,649.68	2,579.46	70.22	37.736	CC
10,000.00	9,953.41	10,031.68	9,967.41	35.91	36.60	90.09	-197.44	2,213.91	2,649.68	2,579.15	70.53	37.571	
10,050.00	10,003.03	10,081.30	10,017.03	36.08	36.77	90.22	-197.44	2,213.91	2,649.70	2,578.83	70.87	37.389	
10,100.00	10,051.93	10,130.20	10,065.93	36.23	36.94	90.43	-197.44	2,213.91	2,649.76	2,578.55	71.20	37.213	
10,150.00	10,099.75	10,178.02	10,113.75	36.38	37.10	90.72	-197.44	2,213.91	2,649.91	2,578.38	71.53	37.045	
10,200.00	10,146.11	10,224.38	10,160.11	36.52	37.26	91.06	-197.44	2,213.91	2,650.22	2,578.37	71.85	36.886	
10,250.00	10,190.67	10,268.94	10,204.67	36.64	37.41	91.44	-197.44	2,213.91	2,650.78	2,578.63	72.15	36.737	
10,300.00	10,233.09	10,311.36	10,247.09	36.75	37.55	91.84	-197.44	2,213.91	2,651.68	2,579.23	72.45	36.601	
10,350.00	10,273.04	10,351.31	10,287.04	36.85	37.69	92.22	-197.44	2,213.91	2,653.01	2,580.28	72.73	36.478	
10,400.00	10,310.22	10,388.49	10,324.22	36.94	37.81	92.57	-197.44	2,213.91	2,654.90	2,581.90	73.00	36.369	
10,450.00	10,344.35	10,422.61	10,358.35	37.01	37.93	92.85	-197.44	2,213.91	2,657.44	2,584.18	73.25	36.277	
10,500.00	10,375.16	10,453.43	10,389.16	37.07	38.03	93.04	-197.44	2,213.91	2,660.73	2,587.24	73.50	36.203	
10,550.00	10,402.43	10,480.70	10,416.43	37.11	38.13	93.12	-197.44	2,213.91	2,664.87	2,591.15	73.72	36.147	
10,600.00	10,425.94	10,504.21	10,439.94	37.15	38.21	93.06	-197.44	2,213.91	2,669.94	2,596.00	73.94	36.110	
10,650.00	10,445.52	10,523.79	10,459.52	37.19	38.27	92.84	-197.44	2,213.91	2,675.98	2,601.84	74.14	36.094	
10,700.00	10,461.01	10,539.28	10,475.01	37.23	38.33	92.45	-197.44	2,213.91	2,683.04	2,608.72	74.32	36.099	
10,750.00	10,472.31	10,550.58	10,486.31	37.30	38.37	91.86	-197.44	2,213.91	2,691.13	2,616.63	74.49	36.125	
10,800.00	10,479.31	10,557.58	10,493.31	37.41	38.39	91.09	-197.44	2,213.91	2,700.22	2,625.57	74.65	36.172	
10,850.00	10,481.98	10,560.25	10,495.98	37.55	38.40	90.12	-197.44	2,213.91	2,710.28	2,635.49	74.78	36.241	
10,858.49	10,482.00	10,560.27	10,496.00	37.57	38.40	89.94	-197.44	2,213.91	2,712.08	2,637.27	74.81	36.255	
10,900.00	10,481.79	10,560.06	10,495.79	37.70	38.40	89.93	-197.44	2,213.91	2,721.23	2,646.32	74.91	36.325	
11,000.00	10,481.28	10,559.55	10,495.28	38.06	38.40	89.92	-197.44	2,213.91	2,745.74	2,670.53	75.21	36.509	
11,100.00	10,480.78	10,559.05	10,494.78	38.49	38.39	89.91	-197.44	2,213.91	2,773.64	2,698.10	75.54	36.718	
11,200.00	10,480.27	12,133.80	11,396.18	38.98	41.79	108.80	721.99	2,207.82	2,798.97	2,720.40	78.56	35.627	
11,300.00	10,479.77	12,233.80	11,396.23	39.53	42.26	108.81	821.99	2,207.15	2,799.15	2,719.60	79.55	35.187	
11,400.00	10,479.26	12,333.79	11,396.28	40.14	42.79	108.82	921.98	2,206.49	2,799.33	2,718.68	80.65	34.709	
11,500.00	10,478.76	12,433.79	11,396.34	40.81	43.38	108.83	1,021.97	2,205.83	2,799.51	2,717.65	81.86	34.198	
11,600.00	10,478.25	12,533.79	11,396.39	41.54	44.01	108.84	1,121.97	2,205.16	2,799.69	2,716.52	83.17	33.661	
11,700.00	10,477.75	12,633.78	11,396.44	42.31	44.70	108.85	1,221.96	2,204.50	2,799.87	2,715.29	84.58	33.102	
11,800.00	10,477.24	12,733.78	11,396.49	43.14	45.43	108.86	1,321.96	2,203.84	2,800.05	2,713.97	86.09	32.526	
11,900.00	10,476.74	12,833.77	11,396.54	44.01	46.22	108.87	1,421.95	2,203.18	2,800.24	2,712.56	87.68	31.938	
12,000.00	10,476.23	12,933.77	11,396.60	44.92	47.04	108.88	1,521.94	2,202.52	2,800.42	2,711.07	89.35	31.342	
12,100.00	10,475.73	13,033.76	11,396.65	45.88	47.91	108.89	1,621.94	2,201.85	2,800.60	2,709.50	91.10	30.741	
12,200.00	10,475.22	13,133.76	11,396.70	46.87	48.82	108.91	1,721.93	2,201.19	2,800.78	2,707.85	92.93	30.138	
12,300.00	10,474.72	13,233.76	11,396.75	47.90	49.77	108.92	1,821.92	2,200.53	2,800.97	2,706.13	94.83	29.536	
12,400.00	10,474.22	13,333.75	11,396.80	48.97	50.75	108.93	1,921.92	2,199.87	2,801.15	2,704.35	96.80	28.939	
12,500.00	10,473.71	13,433.75	11,396.85	50.06	51.77	108.94	2,021.91	2,199.21	2,801.33	2,702.51	98.82	28.347	
12,600.00	10,473.21	13,533.74	11,396.91	51.19	52.82	108.95	2,121.91	2,198.55	2,801.52	2,700.61	100.91	27.763	
12,700.00	10,472.70	13,633.74	11,396.96	52.34	53.89	108.96	2,221.90	2,197.89	2,801.70	2,698.65	103.05	27.188	
12,800.00	10,472.20	13,733.74	11,397.01	53.52	55.00	108.97	2,321.89	2,197.22	2,801.88	2,696.64	105.24	26.624	
12,900.00	10,471.70	13,833.73	11,397.06	54.73	56.14	108.98	2,421.89	2,196.56	2,802.07	2,694.59	107.48	26.071	
13,000.00	10,471.19	13,933.73	11,397.11	55.96	57.30	108.99	2,521.88	2,195.90	2,802.25	2,692.49	109.76	25.530	
13,100.00	10,470.69	14,033.72	11,397.16	57.21	58.48	109.00	2,621.87	2,195.24	2,802.44	2,690.34	112.09	25.001	
13,200.00	10,470.19	14,133.72	11,397.21	58.48	59.68	109.01	2,721.87	2,194.58	2,802.62	2,688.16	114.46	24.486	
13,300.00	10,469.68	14,233.72	11,397.26	59.77	60.91	109.02	2,821.86	2,193.92	2,802.81	2,685.94	116.87	23.983	
13,400.00	10,469.18	14,333.71	11,397.32	61.07	62.16	109.03	2,921.86	2,193.26	2,802.99	2,683.69	119.30	23.494	
13,500.00	10,468.68	14,433.71	11,397.37	62.40	63.42	109.04	3,021.85	2,192.60	2,803.18	2,681.40	121.78	23.019	
13,600.00	10,468.18	14,533.70	11,397.42	63.73	64.70	109.05	3,121.84	2,191.94	2,803.36	2,679.09	124.28	22.557	
13,700.00	10,467.67	14,633.70	11,397.47	65.09	66.00	109.07	3,221.84	2,191.28	2,803.55	2,676.74	126.81	22.109	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 601H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	10,467.17	14,733.70	11,397.52	66.46	67.32	109.08	3,321.83	2,190.62	2,803.74	2,674.37	129.36	21.673	
13,900.00	10,466.67	14,833.69	11,397.57	67.83	68.65	109.09	3,421.82	2,189.96	2,803.92	2,671.97	131.95	21.250	
14,000.00	10,466.17	14,933.69	11,397.62	69.23	69.99	109.10	3,521.82	2,189.30	2,804.11	2,669.55	134.56	20.840	
14,100.00	10,465.67	15,033.68	11,397.67	70.63	71.35	109.11	3,621.81	2,188.64	2,804.30	2,667.11	137.19	20.441	
14,200.00	10,465.17	15,133.68	11,397.72	72.04	72.72	109.12	3,721.81	2,187.98	2,804.48	2,664.64	139.84	20.055	
14,300.00	10,464.66	15,233.68	11,397.77	73.47	74.10	109.13	3,821.80	2,187.32	2,804.67	2,662.16	142.51	19.680	
14,400.00	10,464.16	15,333.67	11,397.82	74.90	75.49	109.14	3,921.79	2,186.66	2,804.86	2,659.65	145.20	19.317	
14,500.00	10,463.66	15,433.67	11,397.88	76.34	76.89	109.15	4,021.79	2,186.00	2,805.04	2,657.13	147.91	18.964	
14,600.00	10,463.16	15,533.66	11,397.93	77.80	78.30	109.16	4,121.78	2,185.34	2,805.23	2,654.59	150.64	18.622	
14,700.00	10,462.66	15,633.66	11,397.98	79.26	79.72	109.17	4,221.77	2,184.69	2,805.42	2,652.04	153.38	18.290	
14,800.00	10,462.16	15,733.66	11,398.03	80.72	81.15	109.18	4,321.77	2,184.03	2,805.61	2,649.47	156.14	17.968	
14,900.00	10,461.66	15,833.65	11,398.08	82.20	82.59	109.19	4,421.76	2,183.37	2,805.80	2,646.89	158.91	17.656	
15,000.00	10,461.16	15,933.65	11,398.13	83.68	84.04	109.20	4,521.76	2,182.71	2,805.99	2,644.29	161.70	17.353	
15,100.00	10,460.66	16,033.64	11,398.18	85.16	85.49	109.21	4,621.75	2,182.05	2,806.18	2,641.68	164.50	17.059	
15,200.00	10,460.16	16,133.64	11,398.23	86.66	86.95	109.22	4,721.74	2,181.39	2,806.37	2,639.06	167.30	16.774	
15,300.00	10,459.66	16,233.64	11,398.28	88.16	88.42	109.24	4,821.74	2,180.73	2,806.56	2,636.43	170.12	16.497	
15,400.00	10,459.16	16,333.63	11,398.33	89.66	89.90	109.25	4,921.73	2,180.08	2,806.74	2,633.79	172.96	16.228	
15,500.00	10,458.66	16,433.63	11,398.38	91.17	91.38	109.26	5,021.72	2,179.42	2,806.93	2,631.14	175.80	15.967	
15,600.00	10,458.16	16,533.62	11,398.43	92.69	92.86	109.27	5,121.72	2,178.76	2,807.13	2,628.48	178.65	15.713	
15,700.00	10,457.66	16,633.62	11,398.48	94.21	94.36	109.28	5,221.71	2,178.10	2,807.32	2,625.80	181.51	15.466	
15,800.00	10,457.16	16,733.62	11,398.53	95.73	95.85	109.29	5,321.71	2,177.44	2,807.51	2,623.12	184.38	15.227	
15,900.00	10,456.66	16,833.61	11,398.58	97.26	97.36	109.30	5,421.70	2,176.79	2,807.70	2,620.44	187.26	14.994	
16,000.00	10,456.16	16,933.61	11,398.63	98.79	98.87	109.31	5,521.69	2,176.13	2,807.89	2,617.74	190.15	14.767	
16,100.00	10,455.66	17,033.60	11,398.68	100.33	100.38	109.32	5,621.69	2,175.47	2,808.08	2,615.04	193.04	14.546	
16,200.00	10,455.16	17,133.60	11,398.73	101.87	101.89	109.33	5,721.68	2,174.81	2,808.27	2,612.33	195.95	14.332	
16,300.00	10,454.67	17,233.60	11,398.78	103.41	103.42	109.34	5,821.68	2,174.16	2,808.46	2,609.61	198.85	14.123	
16,400.00	10,454.17	17,333.59	11,398.83	104.96	104.94	109.35	5,921.67	2,173.50	2,808.65	2,606.89	201.77	13.920	
16,500.00	10,453.67	17,433.59	11,398.88	106.51	106.47	109.36	6,021.66	2,172.84	2,808.85	2,604.16	204.69	13.722	
16,600.00	10,453.17	17,533.58	11,398.93	108.07	108.00	109.37	6,121.66	2,172.19	2,809.04	2,601.42	207.62	13.530	
16,700.00	10,452.67	17,633.58	11,398.98	109.62	109.54	109.38	6,221.65	2,171.53	2,809.23	2,598.68	210.55	13.342	
16,800.00	10,452.17	17,733.58	11,399.03	111.18	111.08	109.39	6,321.64	2,170.87	2,809.43	2,595.94	213.49	13.160	
16,900.00	10,451.68	17,833.57	11,399.08	112.74	112.62	109.40	6,421.64	2,170.22	2,809.62	2,593.19	216.43	12.982	
17,000.00	10,451.18	17,933.57	11,399.12	114.31	114.17	109.41	6,521.63	2,169.56	2,809.81	2,590.44	219.38	12.808	
17,100.00	10,450.68	18,033.56	11,399.17	115.88	115.72	109.42	6,621.63	2,168.90	2,810.00	2,587.68	222.33	12.639	
17,200.00	10,450.18	18,133.56	11,399.22	117.45	117.27	109.43	6,721.62	2,168.25	2,810.20	2,584.91	225.29	12.474	
17,300.00	10,449.69	18,233.56	11,399.27	119.02	118.83	109.44	6,821.61	2,167.59	2,810.39	2,582.14	228.25	12.313	
17,400.00	10,449.19	18,333.55	11,399.32	120.60	120.38	109.46	6,921.61	2,166.93	2,810.59	2,579.37	231.22	12.156	
17,500.00	10,448.69	18,433.55	11,399.37	122.17	121.94	109.47	7,021.60	2,166.28	2,810.78	2,576.60	234.19	12.002	
17,600.00	10,448.20	18,533.54	11,399.42	123.75	123.51	109.48	7,121.60	2,165.62	2,810.98	2,573.82	237.16	11.853	
17,700.00	10,447.70	18,633.54	11,399.47	125.33	125.07	109.49	7,221.59	2,164.97	2,811.17	2,571.04	240.13	11.707	
17,800.00	10,447.20	18,733.54	11,399.52	126.91	126.64	109.50	7,321.58	2,164.31	2,811.37	2,568.25	243.12	11.564	
17,900.00	10,446.71	18,833.53	11,399.57	128.50	128.21	109.51	7,421.58	2,163.66	2,811.56	2,565.46	246.10	11.424	
18,000.00	10,446.21	18,933.53	11,399.62	130.09	129.78	109.52	7,521.57	2,163.00	2,811.76	2,562.67	249.09	11.288	
18,100.00	10,445.71	19,033.52	11,399.67	131.67	131.36	109.53	7,621.56	2,162.35	2,811.95	2,559.88	252.07	11.155	
18,200.00	10,445.22	19,133.52	11,399.71	133.26	132.93	109.54	7,721.56	2,161.69	2,812.15	2,557.08	255.07	11.025	
18,300.00	10,444.72	19,233.52	11,399.76	134.86	134.51	109.55	7,821.55	2,161.04	2,812.34	2,554.28	258.06	10.898	
18,400.00	10,444.23	19,333.51	11,399.81	136.45	136.09	109.56	7,921.55	2,160.38	2,812.54	2,551.48	261.06	10.774	
18,500.00	10,443.73	19,433.51	11,399.86	138.04	137.67	109.57	8,021.54	2,159.73	2,812.74	2,548.68	264.06	10.652	
18,600.00	10,443.24	19,533.50	11,399.91	139.64	139.26	109.58	8,121.53	2,159.07	2,812.93	2,545.87	267.06	10.533	
18,700.00	10,442.74	19,633.50	11,399.96	141.24	140.84	109.59	8,221.53	2,158.42	2,813.13	2,543.06	270.07	10.416	
18,800.00	10,442.25	19,733.50	11,400.01	142.84	142.43	109.60	8,321.52	2,157.76	2,813.33	2,540.25	273.08	10.302	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 601H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	10,441.75	19,833.49	11,400.05	144.44	144.02	109.61	8,421.52	2,157.11	2,813.53	2,537.44	276.08	10.191	
19,000.00	10,441.26	19,933.49	11,400.10	146.04	145.61	109.62	8,521.51	2,156.45	2,813.72	2,534.63	279.10	10.082	
19,100.00	10,440.76	20,033.48	11,400.15	147.64	147.20	109.63	8,621.50	2,155.80	2,813.92	2,531.81	282.11	9.975	
19,200.00	10,440.27	20,133.48	11,400.20	149.24	148.79	109.64	8,721.50	2,155.15	2,814.12	2,528.99	285.13	9.870	
19,300.00	10,439.77	20,233.48	11,400.25	150.85	150.38	109.65	8,821.49	2,154.49	2,814.32	2,526.18	288.14	9.767	
19,400.00	10,439.28	20,333.47	11,400.30	152.45	151.98	109.66	8,921.49	2,153.84	2,814.52	2,523.36	291.16	9.667	
19,500.00	10,438.78	20,433.47	11,400.34	154.06	153.58	109.67	9,021.48	2,153.18	2,814.72	2,520.54	294.18	9.568	
19,600.00	10,438.29	20,533.46	11,400.39	155.67	155.17	109.68	9,121.47	2,152.53	2,814.91	2,517.71	297.20	9.471	
19,700.00	10,437.80	20,633.46	11,400.44	157.28	156.77	109.69	9,221.47	2,151.88	2,815.11	2,514.89	300.22	9.377	
19,800.00	10,437.30	20,733.46	11,400.49	158.89	158.37	109.70	9,321.46	2,151.22	2,815.31	2,512.06	303.25	9.284	
19,900.00	10,436.81	20,833.45	11,400.54	160.50	159.97	109.71	9,421.45	2,150.57	2,815.51	2,509.24	306.28	9.193	
20,000.00	10,436.32	20,933.45	11,400.58	162.11	161.58	109.72	9,521.45	2,149.92	2,815.71	2,506.41	309.30	9.103	
20,100.00	10,435.82	21,033.45	11,400.63	163.72	163.18	109.73	9,621.44	2,149.27	2,815.91	2,503.58	312.33	9.016	
20,200.00	10,435.33	21,133.44	11,400.68	165.34	164.78	109.74	9,721.44	2,148.61	2,816.11	2,500.76	315.36	8.930	
20,300.00	10,434.84	21,233.44	11,400.73	166.95	166.39	109.75	9,821.43	2,147.96	2,816.31	2,497.92	318.39	8.845	
20,400.00	10,434.34	21,333.43	11,400.78	168.57	168.00	109.76	9,921.42	2,147.31	2,816.51	2,495.09	321.42	8.763	
20,500.00	10,433.85	21,433.43	11,400.82	170.18	169.60	109.77	10,021.42	2,146.65	2,816.71	2,492.26	324.45	8.681	
20,600.00	10,433.36	21,533.43	11,400.87	171.80	171.21	109.78	10,121.41	2,146.00	2,816.92	2,489.43	327.49	8.602	
20,700.00	10,432.86	21,633.42	11,400.92	173.42	172.82	109.80	10,221.41	2,145.35	2,817.12	2,486.60	330.52	8.523	
20,800.00	10,432.37	21,733.42	11,400.97	175.04	174.43	109.81	10,321.40	2,144.70	2,817.32	2,483.76	333.56	8.446	
20,875.64	10,432.00	21,804.32	11,401.00	176.26	175.58	109.81	10,392.30	2,144.24	2,817.48	2,481.72	335.75	8.391	ES, SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 602H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.66	0.30	50.00	50.00				
100.00	100.00	100.00	100.00	0.14	0.14	89.66	0.30	50.00	50.00	49.73	0.27	184.754	
200.00	200.00	200.00	200.00	0.49	0.49	89.66	0.30	50.00	50.00	49.02	0.99	50.631	
300.00	300.00	300.00	300.00	0.85	0.85	89.66	0.30	50.00	50.00	48.30	1.70	29.335	
400.00	400.00	400.00	400.00	1.21	1.21	89.66	0.30	50.00	50.00	47.58	2.42	20.650	
500.00	500.00	500.00	500.00	1.57	1.57	89.66	0.30	50.00	50.00	46.86	3.14	15.933	
600.00	600.00	600.00	600.00	1.93	1.93	89.66	0.30	50.00	50.00	46.15	3.86	12.970	
700.00	700.00	700.00	700.00	2.29	2.29	89.66	0.30	50.00	50.00	45.43	4.57	10.936	
800.00	800.00	800.00	800.00	2.64	2.64	89.66	0.30	50.00	50.00	44.71	5.29	9.454	
900.00	900.00	900.00	900.00	3.00	3.00	89.66	0.30	50.00	50.00	44.00	6.01	8.325	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	89.66	0.30	50.00	50.00	43.28	6.72	7.437	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	89.66	0.30	50.00	50.00	42.56	7.44	6.721	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	89.66	0.30	50.00	50.00	41.85	8.16	6.130	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	89.66	0.30	50.00	50.00	41.13	8.87	5.635	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	89.66	0.30	50.00	50.00	40.41	9.59	5.214	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	89.66	0.30	50.00	50.00	39.70	10.31	4.851	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	89.66	0.30	50.00	50.00	38.98	11.02	4.536	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	89.66	0.30	50.00	50.00	38.26	11.74	4.259	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	89.66	0.30	50.00	50.00	37.54	12.46	4.014	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	89.66	0.30	50.00	50.00	36.83	13.18	3.795	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	89.66	0.30	50.00	50.00	36.11	13.89	3.599	
2,100.00	2,100.00	2,100.27	2,100.25	7.30	7.29	91.65	-1.43	49.70	49.72	35.13	14.59	3.407	
2,200.00	2,200.00	2,200.30	2,200.14	7.66	7.61	97.70	-6.59	48.79	49.23	33.96	15.27	3.223	
2,207.35	2,207.35	2,207.64	2,207.46	7.69	7.64	-145.71	-7.11	48.70	49.22	33.90	15.32	3.212 CC	
2,300.00	2,299.98	2,300.00	2,299.45	8.01	7.94	-137.56	-15.16	47.28	50.92	34.98	15.95	3.194	
2,400.00	2,399.84	2,399.07	2,397.78	8.34	8.27	-128.85	-27.03	45.18	56.80	40.20	16.60	3.422	
2,500.00	2,499.45	2,500.70	2,498.46	8.68	8.62	-122.67	-40.21	41.12	64.52	47.22	17.29	3.730	
2,600.00	2,598.70	2,602.83	2,599.65	9.03	8.98	-119.83	-51.93	33.75	70.97	52.97	17.99	3.944	
2,700.00	2,697.47	2,705.31	2,701.05	9.38	9.34	-119.34	-62.12	23.04	75.70	57.01	18.69	4.050	
2,800.00	2,795.62	2,807.99	2,802.39	9.75	9.72	-120.78	-70.75	9.01	78.64	59.27	19.37	4.059	
2,900.00	2,893.44	2,910.75	2,903.43	10.13	10.10	-122.96	-77.80	-8.33	79.00	58.96	20.03	3.944	
3,000.00	2,991.25	3,012.13	3,002.66	10.51	10.49	-124.94	-83.34	-28.29	76.30	55.59	20.72	3.683	
3,100.00	3,089.07	3,112.04	3,100.40	10.91	10.89	-127.03	-88.60	-48.38	73.23	51.78	21.45	3.414	
3,200.00	3,186.88	3,211.96	3,198.13	11.31	11.29	-129.29	-93.86	-68.48	70.26	48.08	22.18	3.168	
3,300.00	3,284.70	3,311.87	3,295.86	11.72	11.70	-131.75	-99.12	-88.58	67.41	44.50	22.91	2.943	
3,400.00	3,382.51	3,411.79	3,393.59	12.14	12.11	-134.42	-104.38	-108.68	64.70	41.07	23.63	2.738	
3,500.00	3,480.33	3,511.71	3,491.33	12.56	12.53	-137.31	-109.64	-128.77	62.14	37.80	24.34	2.553	
3,600.00	3,578.14	3,611.62	3,589.06	12.99	12.96	-140.45	-114.90	-148.87	59.75	34.71	25.04	2.386	
3,700.00	3,675.96	3,711.54	3,686.79	13.42	13.39	-143.83	-120.16	-168.97	57.55	31.83	25.73	2.237	
3,800.00	3,773.77	3,811.45	3,784.52	13.86	13.83	-147.47	-125.42	-189.06	55.58	29.18	26.40	2.105	
3,900.00	3,871.59	3,911.37	3,882.26	14.30	14.27	-151.36	-130.68	-209.16	53.84	26.78	27.06	1.990	
4,000.00	3,969.40	4,011.28	3,979.99	14.75	14.71	-155.49	-135.94	-229.26	52.36	24.66	27.71	1.890	
4,100.00	4,067.22	4,111.20	4,077.72	15.19	15.16	-159.84	-141.20	-249.35	51.17	22.82	28.36	1.805	
4,200.00	4,165.03	4,211.12	4,175.45	15.64	15.60	-164.36	-146.46	-269.45	50.30	21.28	29.02	1.733	
4,221.50	4,186.06	4,232.27	4,196.16	15.74	15.70	-165.34	-147.56	-273.65	50.21	21.01	29.20	1.720 ES	
4,300.00	4,262.84	4,309.33	4,271.84	16.10	16.04	-168.93	-151.23	-287.69	51.37	21.50	29.87	1.720	
4,400.00	4,360.66	4,407.31	4,368.58	16.55	16.45	-173.02	-155.16	-302.69	56.17	25.48	30.69	1.830	
4,500.00	4,458.47	4,504.86	4,465.37	17.01	16.85	-176.05	-158.23	-314.44	64.59	33.14	31.46	2.053	
4,529.32	4,487.15	4,533.35	4,493.70	17.14	16.96	-176.72	-158.97	-317.27	67.73	36.06	31.67	2.139	
4,600.00	4,556.46	4,601.88	4,561.98	17.46	17.22	-177.94	-160.46	-322.95	75.63	43.46	32.16	2.351	
4,700.00	4,655.06	4,698.55	4,658.49	17.90	17.57	-178.93	-161.86	-328.29	86.71	53.89	32.82	2.642	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 602H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,754.18	4,794.90	4,754.81	18.31	17.90	-179.31	-162.43	-330.46	97.63	64.21	33.42	2.921	
4,900.00	4,853.70	4,893.80	4,853.70	18.69	18.22	-179.38	-162.44	-330.52	107.30	73.20	34.10	3.146	
5,000.00	4,953.50	4,993.60	4,953.50	19.05	18.55	-179.41	-162.44	-330.52	113.56	78.75	34.80	3.263	
5,100.00	5,053.46	5,093.55	5,053.46	19.39	18.87	-179.43	-162.44	-330.52	116.32	80.83	35.50	3.277	
5,129.32	5,082.78	5,122.87	5,082.78	19.49	18.97	64.58	-162.44	-330.52	116.47	80.78	35.70	3.263	
5,200.00	5,153.46	5,193.55	5,153.46	19.71	19.20	64.58	-162.44	-330.52	116.47	80.29	36.18	3.219	
5,300.00	5,253.46	5,293.55	5,253.46	20.04	19.53	64.58	-162.44	-330.52	116.47	79.60	36.87	3.159	
5,400.00	5,353.46	5,393.55	5,353.46	20.36	19.86	64.58	-162.44	-330.52	116.47	78.91	37.56	3.101	
5,500.00	5,453.46	5,493.55	5,453.46	20.68	20.19	64.58	-162.44	-330.52	116.47	78.22	38.25	3.045	
5,600.00	5,553.46	5,593.55	5,553.46	21.00	20.52	64.58	-162.44	-330.52	116.47	77.53	38.94	2.991	
5,700.00	5,653.46	5,693.55	5,653.46	21.33	20.86	64.58	-162.44	-330.52	116.47	76.84	39.64	2.939	
5,800.00	5,753.46	5,793.55	5,753.46	21.65	21.19	64.58	-162.44	-330.52	116.47	76.14	40.33	2.888	
5,900.00	5,853.46	5,893.55	5,853.46	21.98	21.52	64.58	-162.44	-330.52	116.47	75.45	41.02	2.839	
6,000.00	5,953.46	5,993.55	5,953.46	22.31	21.86	64.58	-162.44	-330.52	116.47	74.76	41.72	2.792	
6,100.00	6,053.46	6,093.55	6,053.46	22.64	22.20	64.58	-162.44	-330.52	116.47	74.06	42.41	2.746	
6,200.00	6,153.46	6,193.55	6,153.46	22.97	22.53	64.58	-162.44	-330.52	116.47	73.36	43.11	2.702	
6,300.00	6,253.46	6,293.55	6,253.46	23.30	22.87	64.58	-162.44	-330.52	116.47	72.67	43.81	2.659	
6,400.00	6,353.46	6,393.55	6,353.46	23.63	23.21	64.58	-162.44	-330.52	116.47	71.97	44.50	2.617	
6,500.00	6,453.46	6,493.55	6,453.46	23.96	23.55	64.58	-162.44	-330.52	116.47	71.27	45.20	2.577	
6,600.00	6,553.46	6,593.55	6,553.46	24.30	23.89	64.58	-162.44	-330.52	116.47	70.57	45.90	2.538	
6,700.00	6,653.46	6,693.55	6,653.46	24.63	24.23	64.58	-162.44	-330.52	116.47	69.87	46.60	2.499	
6,800.00	6,753.46	6,793.55	6,753.46	24.96	24.57	64.58	-162.44	-330.52	116.47	69.17	47.30	2.462	
6,900.00	6,853.46	6,893.55	6,853.46	25.30	24.91	64.58	-162.44	-330.52	116.47	68.47	48.00	2.427	
7,000.00	6,953.46	6,993.55	6,953.46	25.64	25.25	64.58	-162.44	-330.52	116.47	67.77	48.70	2.392	
7,100.00	7,053.46	7,093.55	7,053.46	25.97	25.59	64.58	-162.44	-330.52	116.47	67.07	49.40	2.358	
7,200.00	7,153.46	7,193.55	7,153.46	26.31	25.93	64.58	-162.44	-330.52	116.47	66.37	50.10	2.325	
7,300.00	7,253.46	7,293.55	7,253.46	26.65	26.28	64.58	-162.44	-330.52	116.47	65.67	50.81	2.293	
7,400.00	7,353.46	7,393.55	7,353.46	26.98	26.62	64.58	-162.44	-330.52	116.47	64.97	51.51	2.261	
7,500.00	7,453.46	7,493.55	7,453.46	27.32	26.96	64.58	-162.44	-330.52	116.47	64.26	52.21	2.231	
7,600.00	7,553.46	7,593.55	7,553.46	27.66	27.31	64.58	-162.44	-330.52	116.47	63.56	52.91	2.201	
7,700.00	7,653.46	7,693.55	7,653.46	28.00	27.65	64.58	-162.44	-330.52	116.47	62.86	53.62	2.172	
7,800.00	7,753.46	7,793.55	7,753.46	28.34	27.99	64.58	-162.44	-330.52	116.47	62.15	54.32	2.144	
7,900.00	7,853.46	7,893.55	7,853.46	28.68	28.34	64.58	-162.44	-330.52	116.47	61.45	55.03	2.117	
8,000.00	7,953.46	7,993.55	7,953.46	29.02	28.68	64.58	-162.44	-330.52	116.47	60.74	55.73	2.090	
8,100.00	8,053.46	8,093.55	8,053.46	29.36	29.03	64.58	-162.44	-330.52	116.47	60.04	56.44	2.064	
8,200.00	8,153.46	8,193.55	8,153.46	29.71	29.38	64.58	-162.44	-330.52	116.47	59.33	57.14	2.038	
8,300.00	8,253.46	8,293.55	8,253.46	30.05	29.72	64.58	-162.44	-330.52	116.47	58.63	57.85	2.013	
8,400.00	8,353.46	8,393.55	8,353.46	30.39	30.07	64.58	-162.44	-330.52	116.47	57.92	58.55	1.989	
8,500.00	8,453.46	8,493.55	8,453.46	30.73	30.42	64.58	-162.44	-330.52	116.47	57.22	59.26	1.966	
8,600.00	8,553.46	8,593.55	8,553.46	31.08	30.76	64.58	-162.44	-330.52	116.47	56.51	59.97	1.942	
8,700.00	8,653.46	8,693.55	8,653.46	31.42	31.11	64.58	-162.44	-330.52	116.47	55.80	60.67	1.920	
8,800.00	8,753.46	8,793.55	8,753.46	31.76	31.46	64.58	-162.44	-330.52	116.47	55.10	61.38	1.898	
8,900.00	8,853.46	8,893.55	8,853.46	32.11	31.81	64.58	-162.44	-330.52	116.47	54.39	62.09	1.876	
9,000.00	8,953.46	8,993.55	8,953.46	32.45	32.15	64.58	-162.44	-330.52	116.47	53.68	62.79	1.855	
9,100.00	9,053.46	9,093.55	9,053.46	32.80	32.50	64.58	-162.44	-330.52	116.47	52.97	63.50	1.834	
9,200.00	9,153.46	9,193.55	9,153.46	33.14	32.85	64.58	-162.44	-330.52	116.47	52.27	64.21	1.814	
9,300.00	9,253.46	9,293.55	9,253.46	33.49	33.20	64.58	-162.44	-330.52	116.47	51.56	64.92	1.794	
9,400.00	9,353.46	9,393.55	9,353.46	33.83	33.55	64.58	-162.44	-330.52	116.47	50.85	65.62	1.775	
9,500.00	9,453.46	9,493.55	9,453.46	34.18	33.90	64.58	-162.44	-330.52	116.47	50.14	66.33	1.756	
9,600.00	9,553.46	9,593.55	9,553.46	34.53	34.25	64.58	-162.44	-330.52	116.47	49.43	67.04	1.737	
9,700.00	9,653.46	9,693.55	9,653.46	34.87	34.60	64.58	-162.44	-330.52	116.47	48.72	67.75	1.719	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 602H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,753.46	9,793.55	9,753.46	35.22	34.95	64.58	-162.44	-330.52	116.47	48.02	68.46	1.701	
9,900.00	9,853.46	9,893.55	9,853.46	35.57	35.30	64.58	-162.44	-330.52	116.47	47.31	69.17	1.684	
9,955.59	9,909.05	9,949.15	9,909.05	35.76	35.49	64.58	-162.44	-330.52	116.47	46.91	69.56	1.674	
10,000.00	9,953.41	9,993.51	9,953.41	35.91	35.65	65.80	-162.44	-330.52	115.76	45.88	69.87	1.657	
10,050.00	10,003.03	10,043.13	10,003.03	36.08	35.82	68.78	-162.44	-330.52	113.41	43.19	70.22	1.615	
10,100.00	10,051.93	10,092.03	10,051.93	36.23	35.99	74.02	-162.44	-330.52	110.04	39.48	70.56	1.559	
10,150.00	10,099.75	10,139.84	10,099.75	36.38	36.16	81.55	-162.44	-330.52	106.83	35.88	70.95	1.506	
10,195.00	10,141.55	10,181.64	10,141.55	36.50	36.30	90.00	-162.44	-330.52	105.53	34.17	71.36	1.479	Level 3
10,200.00	10,146.11	10,186.21	10,146.11	36.52	36.32	91.01	-162.44	-330.52	105.55	34.13	71.41	1.478	Level 3, SF
10,250.00	10,190.67	10,230.77	10,190.67	36.64	36.48	101.52	-162.44	-330.52	108.38	36.40	71.98	1.506	
10,300.00	10,233.09	10,273.18	10,233.09	36.75	36.63	111.78	-162.44	-330.52	117.26	44.68	72.58	1.616	
10,350.00	10,273.04	10,313.13	10,273.04	36.85	36.77	120.71	-162.44	-330.52	133.14	60.00	73.13	1.820	
10,400.00	10,310.22	10,350.31	10,310.22	36.94	36.90	127.78	-162.44	-330.52	155.77	82.21	73.56	2.118	
10,450.00	10,344.35	10,384.44	10,344.35	37.01	37.02	132.96	-162.44	-330.52	184.30	110.42	73.88	2.495	
10,500.00	10,375.16	10,415.25	10,375.16	37.07	37.12	136.39	-162.44	-330.52	217.74	143.63	74.11	2.938	
10,550.00	10,402.43	10,442.52	10,402.43	37.11	37.22	138.23	-162.44	-330.52	255.19	180.91	74.29	3.435	
10,600.00	10,425.94	10,466.03	10,425.94	37.15	37.30	138.50	-162.44	-330.52	295.92	221.50	74.41	3.977	
10,650.00	10,445.52	10,485.61	10,445.52	37.19	37.37	137.02	-162.44	-330.52	339.28	264.77	74.51	4.554	
10,700.00	10,461.01	10,501.11	10,461.01	37.23	37.42	133.24	-162.44	-330.52	384.73	310.15	74.58	5.159	
10,750.00	10,472.31	10,512.40	10,472.31	37.30	37.46	126.02	-162.44	-330.52	431.76	357.14	74.62	5.786	
10,800.00	10,479.31	10,519.41	10,479.31	37.41	37.49	113.26	-162.44	-330.52	479.90	405.26	74.64	6.430	
10,850.00	10,481.98	10,522.08	10,481.98	37.55	37.50	92.74	-162.44	-330.52	528.70	454.07	74.64	7.084	
10,858.49	10,482.00	10,522.10	10,482.00	37.57	37.50	88.55	-162.44	-330.52	537.03	462.39	74.64	7.195	
10,900.00	10,481.79	10,521.89	10,481.79	37.70	37.50	88.44	-162.44	-330.52	577.78	503.16	74.63	7.742	
11,000.00	10,481.28	10,521.38	10,481.28	38.06	37.50	88.17	-162.44	-330.52	676.35	601.74	74.61	9.065	
11,100.00	10,480.78	10,520.87	10,480.78	38.49	37.49	87.89	-162.44	-330.52	775.28	700.68	74.60	10.392	
11,200.00	10,480.27	11,976.31	11,313.67	38.98	42.00	179.96	700.31	-441.17	833.41	787.83	45.59	18.282	
11,300.00	10,479.77	12,076.32	11,314.22	39.53	42.51	-179.99	800.30	-442.59	834.47	788.40	46.07	18.114	
11,400.00	10,479.26	12,176.31	11,314.77	40.14	43.08	-179.99	900.29	-443.25	835.53	788.92	46.60	17.929	
11,500.00	10,478.76	12,276.31	11,315.33	40.81	43.69	-179.99	1,000.28	-443.92	836.58	789.40	47.18	17.731	
11,600.00	10,478.25	12,376.30	11,315.88	41.54	44.36	-179.99	1,100.27	-444.59	837.64	789.83	47.81	17.521	
11,700.00	10,477.75	12,476.30	11,316.43	42.31	45.08	-179.99	1,200.26	-445.25	838.69	790.22	48.48	17.301	
11,800.00	10,477.24	12,576.29	11,316.98	43.14	45.85	-179.99	1,300.25	-445.92	839.75	790.56	49.19	17.073	
11,900.00	10,476.74	12,676.29	11,317.53	44.01	46.67	-179.99	1,400.24	-446.59	840.81	790.87	49.93	16.839	
12,000.00	10,476.23	12,776.28	11,318.08	44.92	47.53	-179.99	1,500.23	-447.25	841.86	791.14	50.72	16.599	
12,100.00	10,475.73	12,876.27	11,318.63	45.88	48.42	-179.99	1,600.23	-447.92	842.92	791.38	51.54	16.355	
12,200.00	10,475.22	12,976.27	11,319.18	46.87	49.36	-179.99	1,700.22	-448.58	843.97	791.58	52.39	16.108	
12,300.00	10,474.72	13,076.26	11,319.73	47.90	50.34	-179.99	1,800.21	-449.25	845.03	791.74	53.28	15.860	
12,400.00	10,474.22	13,176.26	11,320.28	48.97	51.35	-179.99	1,900.20	-449.92	846.08	791.88	54.20	15.610	
12,500.00	10,473.71	13,276.25	11,320.83	50.06	52.39	-179.99	2,000.19	-450.58	847.14	791.99	55.15	15.361	
12,600.00	10,473.21	13,376.25	11,321.39	51.19	53.47	-179.99	2,100.18	-451.25	848.19	792.07	56.12	15.113	
12,700.00	10,472.70	13,476.24	11,321.94	52.34	54.57	-179.99	2,200.17	-451.92	849.25	792.12	57.13	14.866	
12,800.00	10,472.20	13,576.24	11,322.49	53.52	55.70	-179.99	2,300.16	-452.58	850.30	792.15	58.15	14.622	
12,900.00	10,471.70	13,676.23	11,323.04	54.73	56.86	-179.99	2,400.15	-453.25	851.35	792.15	59.20	14.380	
13,000.00	10,471.19	13,776.22	11,323.59	55.96	58.04	-179.99	2,500.14	-453.92	852.41	792.13	60.28	14.142	
13,100.00	10,470.69	13,876.22	11,324.14	57.21	59.24	-179.99	2,600.13	-454.58	853.46	792.09	61.37	13.906	
13,200.00	10,470.19	13,976.21	11,324.69	58.48	60.46	-179.99	2,700.12	-455.25	854.52	792.03	62.49	13.675	
13,300.00	10,469.68	14,076.21	11,325.24	59.77	61.71	-179.99	2,800.11	-455.91	855.57	791.95	63.62	13.448	
13,400.00	10,469.18	14,176.20	11,325.79	61.07	62.97	-179.99	2,900.10	-456.58	856.62	791.85	64.77	13.225	
13,500.00	10,468.68	14,276.20	11,326.34	62.40	64.25	-179.99	3,000.09	-457.25	857.68	791.74	65.94	13.007	
13,600.00	10,468.18	14,376.19	11,326.89	63.73	65.55	-179.99	3,100.09	-457.91	858.73	791.60	67.13	12.793	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 602H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	10,467.67	14,476.19	11,327.44	65.09	66.86	-179.99	3,200.08	-458.58	859.78	791.46	68.33	12.583	
13,800.00	10,467.17	14,576.18	11,328.00	66.46	68.19	-179.99	3,300.07	-459.25	860.84	791.29	69.54	12.379	
13,900.00	10,466.67	14,676.17	11,328.55	67.83	69.54	-179.99	3,400.06	-459.91	861.89	791.12	70.77	12.178	
14,000.00	10,466.17	14,776.17	11,329.10	69.23	70.89	-179.99	3,500.05	-460.58	862.94	790.93	72.01	11.983	
14,100.00	10,465.67	14,876.16	11,329.65	70.63	72.26	-179.99	3,600.04	-461.24	863.99	790.72	73.27	11.792	
14,200.00	10,465.17	14,976.16	11,330.20	72.04	73.64	-179.99	3,700.03	-461.91	865.05	790.51	74.54	11.606	
14,300.00	10,464.66	15,076.15	11,330.75	73.47	75.03	-179.99	3,800.02	-462.58	866.10	790.28	75.81	11.424	
14,400.00	10,464.16	15,176.15	11,331.30	74.90	76.44	-179.99	3,900.01	-463.24	867.15	790.05	77.10	11.247	
14,500.00	10,463.66	15,276.14	11,331.85	76.34	77.85	-179.99	4,000.00	-463.91	868.20	789.80	78.40	11.074	
14,600.00	10,463.16	15,376.14	11,332.40	77.80	79.27	-179.99	4,099.99	-464.58	869.25	789.54	79.71	10.905	
14,700.00	10,462.66	15,476.13	11,332.95	79.26	80.70	-179.99	4,199.98	-465.24	870.31	789.28	81.03	10.741	
14,800.00	10,462.16	15,576.13	11,333.50	80.72	82.14	-179.99	4,299.97	-465.91	871.36	789.00	82.36	10.580	
14,900.00	10,461.66	15,676.12	11,334.05	82.20	83.59	-179.99	4,399.97	-466.57	872.41	788.72	83.69	10.424	
15,000.00	10,461.16	15,776.11	11,334.61	83.68	85.04	-179.99	4,499.96	-467.24	873.46	788.43	85.03	10.272	
15,100.00	10,460.66	15,876.11	11,335.16	85.16	86.50	-179.99	4,599.95	-467.91	874.51	788.13	86.39	10.123	
15,200.00	10,460.16	15,976.10	11,335.71	86.66	87.97	-179.99	4,699.94	-468.57	875.56	787.82	87.74	9.979	
15,300.00	10,459.66	16,076.10	11,336.26	88.16	89.45	-179.99	4,799.93	-469.24	876.61	787.50	89.11	9.838	
15,400.00	10,459.16	16,176.09	11,336.81	89.66	90.93	-179.99	4,899.92	-469.91	877.66	787.18	90.48	9.700	
15,500.00	10,458.66	16,276.09	11,337.36	91.17	92.41	-179.99	4,999.91	-470.57	878.71	786.86	91.86	9.566	
15,600.00	10,458.16	16,376.08	11,337.91	92.69	93.91	-179.99	5,099.90	-471.24	879.77	786.52	93.24	9.435	
15,700.00	10,457.66	16,476.08	11,338.46	94.21	95.41	-179.99	5,199.89	-471.91	880.82	786.18	94.63	9.308	
15,800.00	10,457.16	16,576.07	11,339.01	95.73	96.91	-179.99	5,299.88	-472.57	881.87	785.84	96.03	9.183	
15,900.00	10,456.66	16,676.06	11,339.56	97.26	98.42	-179.99	5,399.87	-473.24	882.92	785.49	97.43	9.062	
16,000.00	10,456.16	16,776.06	11,340.11	98.79	99.93	-179.99	5,499.86	-473.90	883.97	785.13	98.84	8.944	
16,100.00	10,455.66	16,876.05	11,340.67	100.33	101.45	-179.99	5,599.85	-474.57	885.02	784.77	100.25	8.828	
16,200.00	10,455.16	16,976.05	11,341.22	101.87	102.97	-179.99	5,699.84	-475.24	886.07	784.40	101.66	8.716	
16,300.00	10,454.67	17,076.04	11,341.77	103.41	104.50	-179.99	5,799.84	-475.90	887.11	784.03	103.08	8.606	
16,400.00	10,454.17	17,176.04	11,342.32	104.96	106.03	-179.99	5,899.83	-476.57	888.16	783.66	104.51	8.499	
16,500.00	10,453.67	17,276.03	11,342.87	106.51	107.56	-179.99	5,999.82	-477.24	889.21	783.28	105.93	8.394	
16,600.00	10,453.17	17,376.03	11,343.42	108.07	109.10	-179.99	6,099.81	-477.90	890.26	782.90	107.37	8.292	
16,700.00	10,452.67	17,476.02	11,343.97	109.62	110.64	-179.99	6,199.80	-478.57	891.31	782.51	108.80	8.192	
16,800.00	10,452.17	17,576.01	11,344.52	111.18	112.18	-179.99	6,299.79	-479.23	892.36	782.12	110.24	8.095	
16,900.00	10,451.68	17,676.01	11,345.07	112.74	113.73	-179.99	6,399.78	-479.90	893.41	781.72	111.68	7.999	
17,000.00	10,451.18	17,776.00	11,345.62	114.31	115.28	-179.99	6,499.77	-480.57	894.46	781.33	113.13	7.906	
17,100.00	10,450.68	17,876.00	11,346.17	115.88	116.83	-179.99	6,599.76	-481.23	895.51	780.93	114.58	7.816	
17,200.00	10,450.18	17,975.99	11,346.72	117.45	118.39	-179.99	6,699.75	-481.90	896.55	780.52	116.03	7.727	
17,300.00	10,449.69	18,075.99	11,347.28	119.02	119.95	-179.99	6,799.74	-482.57	897.60	780.11	117.49	7.640	
17,400.00	10,449.19	18,175.98	11,347.83	120.60	121.51	-179.99	6,899.73	-483.23	898.65	779.70	118.95	7.555	
17,500.00	10,448.69	18,275.98	11,348.38	122.17	123.07	-179.99	6,999.72	-483.90	899.70	779.29	120.41	7.472	
17,600.00	10,448.20	18,375.97	11,348.93	123.75	124.64	-179.99	7,099.72	-484.56	900.75	778.87	121.87	7.391	
17,700.00	10,447.70	18,475.97	11,349.48	125.33	126.21	-179.99	7,199.71	-485.23	901.79	778.45	123.34	7.312	
17,800.00	10,447.20	18,575.96	11,350.03	126.91	127.78	-179.99	7,299.70	-485.90	902.84	778.03	124.81	7.234	
17,900.00	10,446.71	18,675.95	11,350.58	128.50	129.35	-179.99	7,399.69	-486.56	903.89	777.61	126.28	7.158	
18,000.00	10,446.21	18,775.95	11,351.13	130.09	130.92	-179.99	7,499.68	-487.23	904.93	777.18	127.75	7.083	
18,100.00	10,445.71	18,875.94	11,351.68	131.67	132.50	-179.99	7,599.67	-487.90	905.98	776.75	129.23	7.011	
18,200.00	10,445.22	18,975.94	11,352.23	133.26	134.08	-179.99	7,699.66	-488.56	907.03	776.32	130.71	6.939	
18,300.00	10,444.72	19,075.93	11,352.78	134.86	135.66	-179.99	7,799.65	-489.23	908.07	775.89	132.19	6.870	
18,400.00	10,444.23	19,175.93	11,353.33	136.45	137.24	-179.99	7,899.64	-489.90	909.12	775.45	133.67	6.801	
18,500.00	10,443.73	19,275.92	11,353.89	138.04	138.82	-179.99	7,999.63	-490.56	910.17	775.01	135.15	6.734	
18,600.00	10,443.24	19,375.92	11,354.44	139.64	140.41	-179.99	8,099.62	-491.23	911.21	774.57	136.64	6.669	
18,700.00	10,442.74	19,475.91	11,354.99	141.24	142.00	-179.99	8,199.61	-491.89	912.26	774.13	138.13	6.604	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 602H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,800.00	10,442.25	19,575.91	11,355.54	142.84	143.59	-179.99	8,299.60	-492.56	913.31	773.69	139.62	6.541	
18,900.00	10,441.75	19,675.90	11,356.09	144.44	145.18	-179.99	8,399.60	-493.23	914.35	773.24	141.11	6.480	
19,000.00	10,441.26	19,775.89	11,356.64	146.04	146.77	-179.99	8,499.59	-493.89	915.40	772.79	142.60	6.419	
19,100.00	10,440.76	19,875.89	11,357.19	147.64	148.36	-179.99	8,599.58	-494.56	916.44	772.34	144.10	6.360	
19,200.00	10,440.27	19,975.88	11,357.74	149.24	149.96	-179.99	8,699.57	-495.23	917.49	771.89	145.60	6.302	
19,300.00	10,439.77	20,075.88	11,358.29	150.85	151.55	-179.99	8,799.56	-495.89	918.53	771.44	147.09	6.245	
19,400.00	10,439.28	20,175.87	11,358.84	152.45	153.15	-180.00	8,899.55	-496.56	919.58	770.99	148.59	6.189	
19,500.00	10,438.78	20,275.87	11,359.39	154.06	154.75	-180.00	8,999.54	-497.22	920.62	770.53	150.09	6.134	
19,600.00	10,438.29	20,375.86	11,359.94	155.67	156.35	-180.00	9,099.53	-497.89	921.67	770.07	151.60	6.080	
19,700.00	10,437.80	20,475.86	11,360.50	157.28	157.95	-180.00	9,199.52	-498.56	922.71	769.61	153.10	6.027	
19,800.00	10,437.30	20,575.85	11,361.05	158.89	159.55	-180.00	9,299.51	-499.22	923.76	769.15	154.60	5.975	
19,900.00	10,436.81	20,675.85	11,361.60	160.50	161.15	-180.00	9,399.50	-499.89	924.80	768.69	156.11	5.924	
20,000.00	10,436.32	20,775.84	11,362.15	162.11	162.76	-180.00	9,499.49	-500.56	925.85	768.23	157.62	5.874	
20,100.00	10,435.82	20,875.83	11,362.70	163.72	164.36	-180.00	9,599.49	-501.22	926.89	767.77	159.13	5.825	
20,200.00	10,435.33	20,975.83	11,363.25	165.34	165.97	-180.00	9,699.48	-501.89	927.94	767.30	160.64	5.777	
20,300.00	10,434.84	21,075.82	11,363.80	166.95	167.57	-180.00	9,799.47	-502.55	928.98	766.83	162.15	5.729	
20,400.00	10,434.34	21,175.82	11,364.35	168.57	169.18	-180.00	9,899.46	-503.22	930.02	766.36	163.66	5.683	
20,500.00	10,433.85	21,275.81	11,364.90	170.18	170.79	-180.00	9,999.45	-503.89	931.07	765.90	165.17	5.637	
20,600.00	10,433.36	21,375.81	11,365.45	171.80	172.40	-180.00	10,099.44	-504.55	932.11	765.42	166.69	5.592	
20,700.00	10,432.86	21,475.80	11,366.00	173.42	174.01	-180.00	10,199.43	-505.22	933.15	764.95	168.20	5.548	
20,800.00	10,432.37	21,575.80	11,366.56	175.04	175.62	-180.00	10,299.42	-505.89	934.20	764.48	169.72	5.504	
20,875.64	10,432.00	21,651.43	11,366.97	176.26	176.84	-180.00	10,375.05	-506.39	934.99	764.12	170.86	5.472	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 603H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	10.00	10.00	0.00	0.01	88.51	32.00	1,233.95	1,234.37				
100.00	100.00	110.00	110.00	0.14	0.17	88.51	32.00	1,233.95	1,234.37	1,234.06	0.31	4,039.200	
200.00	200.00	210.00	210.00	0.49	0.53	88.51	32.00	1,233.95	1,234.37	1,233.35	1.02	1,207.159	
300.00	300.00	310.00	310.00	0.85	0.89	88.51	32.00	1,233.95	1,234.37	1,232.63	1.74	709.618	
400.00	400.00	410.00	410.00	1.21	1.25	88.51	32.00	1,233.95	1,234.37	1,231.91	2.46	502.506	
500.00	500.00	510.00	510.00	1.57	1.60	88.51	32.00	1,233.95	1,234.37	1,231.20	3.17	388.977	
600.00	600.00	610.00	610.00	1.93	1.96	88.51	32.00	1,233.95	1,234.37	1,230.48	3.89	317.293	
700.00	700.00	710.00	710.00	2.29	2.32	88.51	32.00	1,233.95	1,234.37	1,229.76	4.61	267.918	
800.00	800.00	810.00	810.00	2.64	2.68	88.51	32.00	1,233.95	1,234.37	1,229.04	5.32	231.841	
900.00	900.00	910.00	910.00	3.00	3.04	88.51	32.00	1,233.95	1,234.37	1,228.33	6.04	204.327	
1,000.00	1,000.00	1,010.00	1,010.00	3.36	3.40	88.51	32.00	1,233.95	1,234.37	1,227.61	6.76	182.651	
1,100.00	1,100.00	1,110.00	1,110.00	3.72	3.75	88.51	32.00	1,233.95	1,234.37	1,226.89	7.48	165.132	
1,200.00	1,200.00	1,210.00	1,210.00	4.08	4.11	88.51	32.00	1,233.95	1,234.37	1,226.18	8.19	150.680	
1,300.00	1,300.00	1,310.00	1,310.00	4.44	4.47	88.51	32.00	1,233.95	1,234.37	1,225.46	8.91	138.554	
1,400.00	1,400.00	1,410.00	1,410.00	4.80	4.83	88.51	32.00	1,233.95	1,234.37	1,224.74	9.63	128.235	
1,500.00	1,500.00	1,510.00	1,510.00	5.15	5.19	88.51	32.00	1,233.95	1,234.37	1,224.03	10.34	119.346	
1,600.00	1,600.00	1,610.00	1,610.00	5.51	5.55	88.51	32.00	1,233.95	1,234.37	1,223.31	11.06	111.609	
1,700.00	1,700.00	1,710.00	1,710.00	5.87	5.91	88.51	32.00	1,233.95	1,234.37	1,222.59	11.78	104.815	
1,800.00	1,800.00	1,810.00	1,810.00	6.23	6.26	88.51	32.00	1,233.95	1,234.37	1,221.88	12.49	98.800	
1,900.00	1,900.00	1,910.00	1,910.00	6.59	6.62	88.51	32.00	1,233.95	1,234.37	1,221.16	13.21	93.438	
2,000.00	2,000.00	2,015.69	2,015.69	6.95	7.00	88.52	31.98	1,233.92	1,234.35	1,220.40	13.95	88.512	
2,100.00	2,100.00	2,172.41	2,172.31	7.30	7.53	88.64	29.09	1,229.66	1,231.58	1,216.76	14.82	83.108	
2,200.00	2,200.00	2,328.10	2,327.39	7.66	8.06	88.99	21.47	1,218.42	1,224.25	1,208.59	15.66	78.198	
2,300.00	2,299.98	2,482.29	2,480.02	8.01	8.60	-154.59	9.27	1,200.43	1,214.01	1,197.56	16.45	73.789	
2,400.00	2,399.84	2,622.76	2,617.89	8.34	9.11	-154.13	-5.79	1,178.22	1,202.63	1,185.43	17.20	69.925	
2,500.00	2,499.45	2,721.99	2,714.95	8.68	9.49	-153.83	-17.37	1,161.15	1,193.13	1,175.25	17.89	66.711	
2,600.00	2,598.70	2,821.58	2,812.36	9.03	9.88	-153.58	-28.99	1,144.01	1,186.80	1,168.22	18.58	63.868	
2,700.00	2,697.47	2,921.41	2,910.01	9.38	10.28	-153.38	-40.64	1,126.84	1,183.61	1,164.32	19.29	61.362	
2,751.59	2,748.19	2,972.96	2,960.43	9.57	10.49	-153.29	-46.66	1,117.96	1,183.20	1,163.54	19.66	60.190 CC, ES	
2,800.00	2,795.62	3,021.35	3,007.76	9.75	10.68	-153.21	-52.30	1,109.64	1,183.56	1,163.56	20.01	59.162	
2,900.00	2,893.44	3,121.30	3,105.53	10.13	11.10	-153.09	-63.97	1,092.44	1,185.08	1,164.35	20.73	57.165	
3,000.00	2,991.25	3,221.26	3,203.31	10.51	11.52	-152.97	-75.63	1,075.24	1,186.60	1,165.13	21.47	55.280	
3,100.00	3,089.07	3,321.22	3,301.08	10.91	11.95	-152.85	-87.30	1,058.04	1,188.12	1,165.92	22.21	53.500	
3,200.00	3,186.88	3,421.17	3,398.85	11.31	12.38	-152.73	-98.96	1,040.84	1,189.66	1,166.70	22.96	51.819	
3,300.00	3,284.70	3,521.13	3,496.62	11.72	12.81	-152.60	-110.62	1,023.64	1,191.19	1,167.48	23.71	50.230	
3,400.00	3,382.51	3,621.09	3,594.40	12.14	13.26	-152.48	-122.29	1,006.44	1,192.73	1,168.26	24.48	48.726	
3,500.00	3,480.33	3,721.04	3,692.17	12.56	13.70	-152.36	-133.95	989.24	1,194.28	1,169.03	25.25	47.304	
3,600.00	3,578.14	3,821.00	3,789.94	12.99	14.15	-152.24	-145.62	972.04	1,195.83	1,169.81	26.02	45.955	
3,700.00	3,675.96	3,920.95	3,887.71	13.42	14.60	-152.12	-157.28	954.84	1,197.39	1,170.59	26.80	44.677	
3,800.00	3,773.77	4,020.91	3,985.48	13.86	15.05	-152.00	-168.95	937.64	1,198.96	1,171.37	27.58	43.464	
3,900.00	3,871.59	4,100.00	4,063.02	14.30	15.41	-151.93	-177.69	924.75	1,201.42	1,173.10	28.32	42.420	
4,000.00	3,969.40	4,172.13	4,134.09	14.75	15.72	-151.92	-184.62	914.53	1,205.98	1,176.95	29.03	41.550	
4,100.00	4,067.22	4,246.52	4,207.68	15.19	16.03	-151.96	-190.71	905.55	1,212.64	1,182.92	29.72	40.809	
4,200.00	4,165.03	4,320.62	4,281.24	15.64	16.32	-152.06	-195.71	898.18	1,221.39	1,191.00	30.39	40.195	
4,300.00	4,262.84	4,400.00	4,360.27	16.10	16.63	-152.22	-199.87	892.03	1,232.25	1,201.19	31.06	39.674	
4,400.00	4,360.66	4,467.59	4,427.70	16.55	16.88	-152.40	-202.45	888.23	1,245.16	1,213.50	31.66	39.325	
4,500.00	4,458.47	4,540.27	4,500.31	17.01	17.13	-152.64	-204.23	885.61	1,260.17	1,227.90	32.27	39.053	
4,529.32	4,487.15	4,561.46	4,521.49	17.14	17.20	-152.72	-204.55	885.13	1,264.96	1,232.52	32.44	38.993	
4,600.00	4,556.46	4,612.42	4,572.45	17.46	17.38	-153.01	-204.97	884.51	1,276.49	1,243.65	32.85	38.861	
4,700.00	4,655.06	4,705.04	4,665.06	17.90	17.67	-153.46	-205.00	884.47	1,291.35	1,257.84	33.51	38.536	
4,800.00	4,754.18	4,804.16	4,764.18	18.31	17.99	-153.82	-205.00	884.47	1,303.20	1,269.00	34.20	38.104	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 603H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	4,903.68	4,863.70	18.69	18.31	-154.09	-205.00	884.47	1,311.95	1,277.06	34.89	37.602	
5,000.00	4,953.50	5,003.48	4,963.50	19.05	18.64	-154.25	-205.00	884.47	1,317.59	1,282.01	35.58	37.035	
5,100.00	5,053.46	5,103.43	5,063.46	19.39	18.96	-154.33	-205.00	884.47	1,320.08	1,283.82	36.26	36.407	
5,129.32	5,082.78	5,132.75	5,092.78	19.49	19.06	89.68	-205.00	884.47	1,320.22	1,283.76	36.46	36.213	
5,200.00	5,153.46	5,203.43	5,163.46	19.71	19.29	89.68	-205.00	884.47	1,320.22	1,283.28	36.93	35.746	
5,300.00	5,253.46	5,303.43	5,263.46	20.04	19.61	89.68	-205.00	884.47	1,320.22	1,282.61	37.61	35.104	
5,400.00	5,353.46	5,403.43	5,363.46	20.36	19.94	89.68	-205.00	884.47	1,320.22	1,281.93	38.29	34.484	
5,500.00	5,453.46	5,503.43	5,463.46	20.68	20.27	89.68	-205.00	884.47	1,320.22	1,281.25	38.96	33.883	
5,600.00	5,553.46	5,603.43	5,563.46	21.00	20.60	89.68	-205.00	884.47	1,320.22	1,280.57	39.64	33.303	
5,700.00	5,653.46	5,703.43	5,663.46	21.33	20.93	89.68	-205.00	884.47	1,320.22	1,279.89	40.32	32.740	
5,800.00	5,753.46	5,803.43	5,763.46	21.65	21.27	89.68	-205.00	884.47	1,320.22	1,279.21	41.01	32.196	
5,900.00	5,853.46	5,903.43	5,863.46	21.98	21.60	89.68	-205.00	884.47	1,320.22	1,278.53	41.69	31.668	
6,000.00	5,953.46	6,003.43	5,963.46	22.31	21.93	89.68	-205.00	884.47	1,320.22	1,277.84	42.37	31.157	
6,100.00	6,053.46	6,103.43	6,063.46	22.64	22.27	89.68	-205.00	884.47	1,320.22	1,277.16	43.06	30.661	
6,200.00	6,153.46	6,203.43	6,163.46	22.97	22.60	89.68	-205.00	884.47	1,320.22	1,276.47	43.75	30.180	
6,300.00	6,253.46	6,303.43	6,263.46	23.30	22.94	89.68	-205.00	884.47	1,320.22	1,275.78	44.43	29.713	
6,400.00	6,353.46	6,403.43	6,363.46	23.63	23.28	89.68	-205.00	884.47	1,320.22	1,275.09	45.12	29.259	
6,500.00	6,453.46	6,503.43	6,463.46	23.96	23.61	89.68	-205.00	884.47	1,320.22	1,274.41	45.81	28.819	
6,600.00	6,553.46	6,603.43	6,563.46	24.30	23.95	89.68	-205.00	884.47	1,320.22	1,273.72	46.50	28.392	
6,700.00	6,653.46	6,703.43	6,663.46	24.63	24.29	89.68	-205.00	884.47	1,320.22	1,273.02	47.19	27.976	
6,800.00	6,753.46	6,803.43	6,763.46	24.96	24.63	89.68	-205.00	884.47	1,320.22	1,272.33	47.88	27.572	
6,900.00	6,853.46	6,903.43	6,863.46	25.30	24.97	89.68	-205.00	884.47	1,320.22	1,271.64	48.58	27.179	
7,000.00	6,953.46	7,003.43	6,963.46	25.64	25.31	89.68	-205.00	884.47	1,320.22	1,270.95	49.27	26.796	
7,100.00	7,053.46	7,103.43	7,063.46	25.97	25.65	89.68	-205.00	884.47	1,320.22	1,270.25	49.96	26.424	
7,200.00	7,153.46	7,203.43	7,163.46	26.31	25.99	89.68	-205.00	884.47	1,320.22	1,269.56	50.66	26.062	
7,300.00	7,253.46	7,303.43	7,263.46	26.65	26.33	89.68	-205.00	884.47	1,320.22	1,268.86	51.35	25.709	
7,400.00	7,353.46	7,403.43	7,363.46	26.98	26.68	89.68	-205.00	884.47	1,320.22	1,268.17	52.05	25.366	
7,500.00	7,453.46	7,503.43	7,463.46	27.32	27.02	89.68	-205.00	884.47	1,320.22	1,267.47	52.74	25.031	
7,600.00	7,553.46	7,603.43	7,563.46	27.66	27.36	89.68	-205.00	884.47	1,320.22	1,266.78	53.44	24.705	
7,700.00	7,653.46	7,703.43	7,663.46	28.00	27.71	89.68	-205.00	884.47	1,320.22	1,266.08	54.14	24.386	
7,800.00	7,753.46	7,803.43	7,763.46	28.34	28.05	89.68	-205.00	884.47	1,320.22	1,265.38	54.84	24.076	
7,900.00	7,853.46	7,903.43	7,863.46	28.68	28.39	89.68	-205.00	884.47	1,320.22	1,264.68	55.53	23.773	
8,000.00	7,953.46	8,003.43	7,963.46	29.02	28.74	89.68	-205.00	884.47	1,320.22	1,263.98	56.23	23.478	
8,100.00	8,053.46	8,103.43	8,063.46	29.36	29.08	89.68	-205.00	884.47	1,320.22	1,263.28	56.93	23.190	
8,200.00	8,153.46	8,203.43	8,163.46	29.71	29.43	89.68	-205.00	884.47	1,320.22	1,262.58	57.63	22.908	
8,300.00	8,253.46	8,303.43	8,263.46	30.05	29.77	89.68	-205.00	884.47	1,320.22	1,261.88	58.33	22.633	
8,400.00	8,353.46	8,403.43	8,363.46	30.39	30.12	89.68	-205.00	884.47	1,320.22	1,261.18	59.03	22.365	
8,500.00	8,453.46	8,503.43	8,463.46	30.73	30.46	89.68	-205.00	884.47	1,320.22	1,260.48	59.73	22.102	
8,600.00	8,553.46	8,603.43	8,563.46	31.08	30.81	89.68	-205.00	884.47	1,320.22	1,259.78	60.43	21.846	
8,700.00	8,653.46	8,703.43	8,663.46	31.42	31.16	89.68	-205.00	884.47	1,320.22	1,259.08	61.14	21.595	
8,800.00	8,753.46	8,803.43	8,763.46	31.76	31.50	89.68	-205.00	884.47	1,320.22	1,258.38	61.84	21.350	
8,900.00	8,853.46	8,903.43	8,863.46	32.11	31.85	89.68	-205.00	884.47	1,320.22	1,257.68	62.54	21.110	
9,000.00	8,953.46	9,003.43	8,963.46	32.45	32.20	89.68	-205.00	884.47	1,320.22	1,256.97	63.24	20.876	
9,100.00	9,053.46	9,103.43	9,063.46	32.80	32.55	89.68	-205.00	884.47	1,320.22	1,256.27	63.95	20.646	
9,200.00	9,153.46	9,203.43	9,163.46	33.14	32.89	89.68	-205.00	884.47	1,320.22	1,255.57	64.65	20.421	
9,300.00	9,253.46	9,303.43	9,263.46	33.49	33.24	89.68	-205.00	884.47	1,320.22	1,254.86	65.35	20.202	
9,400.00	9,353.46	9,403.43	9,363.46	33.83	33.59	89.68	-205.00	884.47	1,320.22	1,254.16	66.06	19.986	
9,500.00	9,453.46	9,503.43	9,463.46	34.18	33.94	89.68	-205.00	884.47	1,320.22	1,253.46	66.76	19.776	
9,600.00	9,553.46	9,603.43	9,563.46	34.53	34.29	89.68	-205.00	884.47	1,320.22	1,252.75	67.46	19.569	
9,700.00	9,653.46	9,703.43	9,663.46	34.87	34.64	89.68	-205.00	884.47	1,320.22	1,252.05	68.17	19.367	
9,800.00	9,753.46	9,803.43	9,763.46	35.22	34.99	89.68	-205.00	884.47	1,320.22	1,251.34	68.87	19.169	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 603H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,853.46	9,903.43	9,863.46	35.57	35.34	89.68	-205.00	884.47	1,320.22	1,250.64	69.58	18.974	
9,955.59	9,909.05	9,959.03	9,919.05	35.76	35.53	89.68	-205.00	884.47	1,320.22	1,250.24	69.97	18.868	
10,000.00	9,953.41	10,003.39	9,963.41	35.91	35.69	90.13	-205.00	884.47	1,320.22	1,249.94	70.28	18.784	
10,050.00	10,003.03	10,053.01	10,013.03	36.08	35.86	90.39	-205.00	884.47	1,320.25	1,249.62	70.63	18.692	
10,100.00	10,051.93	10,101.91	10,061.93	36.23	36.03	90.82	-205.00	884.47	1,320.36	1,249.39	70.97	18.604	
10,150.00	10,099.75	10,149.72	10,109.75	36.38	36.20	91.39	-205.00	884.47	1,320.65	1,249.35	71.31	18.521	
10,200.00	10,146.11	10,196.09	10,156.11	36.52	36.36	92.08	-205.00	884.47	1,321.27	1,249.64	71.63	18.446	
10,250.00	10,190.67	10,240.65	10,200.67	36.64	36.52	92.84	-205.00	884.47	1,322.36	1,250.42	71.94	18.381	
10,300.00	10,233.09	10,283.06	10,243.09	36.75	36.66	93.64	-205.00	884.47	1,324.13	1,251.89	72.24	18.329	
10,350.00	10,273.04	10,323.01	10,283.04	36.85	36.80	94.41	-205.00	884.47	1,326.78	1,254.25	72.53	18.293	
10,400.00	10,310.22	10,360.19	10,320.22	36.94	36.93	95.11	-205.00	884.47	1,330.51	1,257.71	72.80	18.275	
10,450.00	10,344.35	10,394.32	10,354.35	37.01	37.05	95.67	-205.00	884.47	1,335.54	1,262.47	73.06	18.279	
10,500.00	10,375.16	10,425.13	10,385.16	37.07	37.16	96.06	-205.00	884.47	1,342.04	1,268.74	73.31	18.307	
10,550.00	10,402.43	10,452.40	10,412.43	37.11	37.26	96.22	-205.00	884.47	1,350.20	1,276.67	73.53	18.362	
10,600.00	10,425.94	10,475.91	10,435.94	37.15	37.34	96.10	-205.00	884.47	1,360.13	1,286.39	73.74	18.445	
10,650.00	10,445.52	10,495.49	10,455.52	37.19	37.41	95.67	-205.00	884.47	1,371.91	1,297.98	73.93	18.557	
10,700.00	10,461.01	10,510.99	10,471.01	37.23	37.46	94.88	-205.00	884.47	1,385.59	1,311.49	74.10	18.700	
10,750.00	10,472.31	10,522.28	10,482.31	37.30	37.50	93.73	-205.00	884.47	1,401.14	1,326.90	74.24	18.873	
10,800.00	10,479.31	10,529.29	10,489.31	37.41	37.53	92.18	-205.00	884.47	1,418.48	1,344.12	74.36	19.076	
10,850.00	10,481.98	10,531.96	10,491.98	37.55	37.54	90.24	-205.00	884.47	1,437.49	1,363.03	74.46	19.306	
10,858.49	10,482.00	10,531.98	10,492.00	37.57	37.54	89.87	-205.00	884.47	1,440.87	1,366.40	74.47	19.348	
10,900.00	10,481.79	10,531.77	10,491.79	37.70	37.53	89.86	-205.00	884.47	1,457.99	1,383.45	74.54	19.560	
11,000.00	10,481.28	10,531.26	10,491.28	38.06	37.53	89.84	-205.00	884.47	1,503.15	1,428.44	74.71	20.119	
11,100.00	10,480.78	10,530.75	10,490.78	38.49	37.53	89.82	-205.00	884.47	1,553.45	1,478.56	74.89	20.743	
11,200.00	10,480.27	12,067.16	11,358.02	38.98	41.70	123.32	711.09	878.40	1,579.86	1,506.85	73.01	21.638	
11,300.00	10,479.77	12,167.16	11,358.32	39.53	42.20	123.34	811.08	877.73	1,580.30	1,506.36	73.94	21.372	
11,400.00	10,479.26	12,267.16	11,358.61	40.14	42.77	123.36	911.08	877.07	1,580.74	1,505.77	74.97	21.085	
11,500.00	10,478.76	12,367.16	11,358.91	40.81	43.38	123.39	1,011.07	876.41	1,581.18	1,505.09	76.09	20.780	
11,600.00	10,478.25	12,467.16	11,359.21	41.54	44.05	123.41	1,111.07	875.74	1,581.62	1,504.32	77.30	20.460	
11,700.00	10,477.75	12,567.15	11,359.50	42.31	44.77	123.44	1,211.06	875.08	1,582.07	1,503.47	78.60	20.128	
11,800.00	10,477.24	12,667.15	11,359.80	43.14	45.53	123.46	1,311.06	874.41	1,582.51	1,502.53	79.98	19.787	
11,900.00	10,476.74	12,767.15	11,360.10	44.01	46.34	123.49	1,411.05	873.75	1,582.95	1,501.52	81.43	19.439	
12,000.00	10,476.23	12,867.15	11,360.40	44.92	47.20	123.51	1,511.05	873.08	1,583.39	1,500.43	82.96	19.086	
12,100.00	10,475.73	12,967.14	11,360.69	45.88	48.10	123.53	1,611.04	872.42	1,583.84	1,499.28	84.56	18.731	
12,200.00	10,475.22	13,067.14	11,360.99	46.87	49.04	123.56	1,711.04	871.76	1,584.28	1,498.06	86.22	18.376	
12,300.00	10,474.72	13,167.14	11,361.29	47.90	50.01	123.58	1,811.03	871.09	1,584.72	1,496.78	87.94	18.021	
12,400.00	10,474.22	13,267.14	11,361.59	48.97	51.02	123.61	1,911.03	870.43	1,585.16	1,495.45	89.71	17.669	
12,500.00	10,473.71	13,367.14	11,361.88	50.06	52.06	123.63	2,011.02	869.76	1,585.61	1,494.06	91.54	17.321	
12,600.00	10,473.21	13,467.13	11,362.18	51.19	53.13	123.65	2,111.02	869.10	1,586.05	1,492.63	93.42	16.977	
12,700.00	10,472.70	13,567.13	11,362.48	52.34	54.24	123.68	2,211.01	868.43	1,586.50	1,491.15	95.35	16.639	
12,800.00	10,472.20	13,667.13	11,362.78	53.52	55.37	123.70	2,311.01	867.77	1,586.94	1,489.62	97.32	16.306	
12,900.00	10,471.70	13,767.13	11,363.07	54.73	56.52	123.73	2,411.00	867.10	1,587.38	1,488.05	99.33	15.980	
13,000.00	10,471.19	13,867.12	11,363.37	55.96	57.70	123.75	2,511.00	866.43	1,587.83	1,486.45	101.38	15.662	
13,100.00	10,470.69	13,967.12	11,363.67	57.21	58.90	123.77	2,610.99	865.77	1,588.27	1,484.81	103.47	15.350	
13,200.00	10,470.19	14,067.12	11,363.97	58.48	60.13	123.80	2,710.99	865.10	1,588.72	1,483.13	105.59	15.046	
13,300.00	10,469.68	14,167.12	11,364.27	59.77	61.37	123.82	2,810.98	864.44	1,589.16	1,481.43	107.74	14.750	
13,400.00	10,469.18	14,267.12	11,364.56	61.07	62.64	123.85	2,910.98	863.77	1,589.61	1,479.69	109.92	14.462	
13,500.00	10,468.68	14,367.11	11,364.86	62.40	63.92	123.87	3,010.97	863.11	1,590.05	1,477.93	112.13	14.181	
13,600.00	10,468.18	14,467.11	11,365.16	63.73	65.22	123.89	3,110.97	862.44	1,590.50	1,476.14	114.36	13.908	
13,700.00	10,467.67	14,567.11	11,365.46	65.09	66.53	123.92	3,210.96	861.77	1,590.95	1,474.33	116.61	13.643	
13,800.00	10,467.17	14,667.11	11,365.76	66.46	67.86	123.94	3,310.96	861.11	1,591.39	1,472.50	118.89	13.385	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 603H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,466.67	14,767.10	11,366.05	67.83	69.20	123.97	3,410.95	860.44	1,591.84	1,470.65	121.19	13.135	
14,000.00	10,466.17	14,867.10	11,366.35	69.23	70.56	123.99	3,510.95	859.77	1,592.29	1,468.77	123.51	12.892	
14,100.00	10,465.67	14,967.10	11,366.65	70.63	71.93	124.01	3,610.94	859.11	1,592.73	1,466.88	125.85	12.656	
14,200.00	10,465.17	15,067.10	11,366.95	72.04	73.31	124.04	3,710.94	858.44	1,593.18	1,464.97	128.21	12.427	
14,300.00	10,464.66	15,167.10	11,367.25	73.47	74.70	124.06	3,810.93	857.77	1,593.63	1,463.05	130.58	12.204	
14,400.00	10,464.16	15,267.09	11,367.55	74.90	76.10	124.09	3,910.93	857.10	1,594.07	1,461.11	132.97	11.989	
14,500.00	10,463.66	15,367.09	11,367.85	76.34	77.52	124.11	4,010.92	856.44	1,594.52	1,459.16	135.37	11.779	
14,600.00	10,463.16	15,467.09	11,368.14	77.80	78.94	124.13	4,110.92	855.77	1,594.97	1,457.19	137.78	11.576	
14,700.00	10,462.66	15,567.09	11,368.44	79.26	80.37	124.16	4,210.92	855.10	1,595.42	1,455.21	140.21	11.379	
14,800.00	10,462.16	15,667.08	11,368.74	80.72	81.81	124.18	4,310.91	854.44	1,595.87	1,453.22	142.64	11.188	
14,900.00	10,461.66	15,767.08	11,369.04	82.20	83.26	124.20	4,410.91	853.77	1,596.31	1,451.22	145.09	11.002	
15,000.00	10,461.16	15,867.08	11,369.34	83.68	84.71	124.23	4,510.90	853.10	1,596.76	1,449.21	147.55	10.822	
15,100.00	10,460.66	15,967.08	11,369.64	85.16	86.17	124.25	4,610.90	852.43	1,597.21	1,447.19	150.02	10.647	
15,200.00	10,460.16	16,067.08	11,369.94	86.66	87.64	124.28	4,710.89	851.76	1,597.66	1,445.16	152.50	10.477	
15,300.00	10,459.66	16,167.07	11,370.24	88.16	89.12	124.30	4,810.89	851.10	1,598.11	1,443.13	154.99	10.311	
15,400.00	10,459.16	16,267.07	11,370.54	89.66	90.60	124.32	4,910.88	850.43	1,598.56	1,441.08	157.48	10.151	
15,500.00	10,458.66	16,367.07	11,370.84	91.17	92.09	124.35	5,010.88	849.76	1,599.01	1,439.03	159.98	9.995	
15,600.00	10,458.16	16,467.07	11,371.13	92.69	93.58	124.37	5,110.87	849.09	1,599.46	1,436.97	162.49	9.843	
15,700.00	10,457.66	16,567.06	11,371.43	94.21	95.08	124.39	5,210.87	848.42	1,599.91	1,434.90	165.01	9.696	
15,800.00	10,457.16	16,667.06	11,371.73	95.73	96.59	124.42	5,310.86	847.75	1,600.36	1,432.84	167.53	9.553	
15,900.00	10,456.66	16,767.06	11,372.03	97.26	98.10	124.44	5,410.86	847.08	1,600.81	1,430.76	170.05	9.414	
16,000.00	10,456.16	16,867.06	11,372.33	98.79	99.61	124.46	5,510.85	846.42	1,601.26	1,428.68	172.58	9.278	
16,100.00	10,455.66	16,967.06	11,372.63	100.33	101.13	124.49	5,610.85	845.75	1,601.71	1,426.60	175.12	9.147	
16,200.00	10,455.16	17,067.05	11,372.93	101.87	102.65	124.51	5,710.84	845.08	1,602.16	1,424.51	177.66	9.018	
16,300.00	10,454.67	17,167.05	11,373.23	103.41	104.18	124.54	5,810.84	844.41	1,602.62	1,422.41	180.20	8.893	
16,400.00	10,454.17	17,267.05	11,373.53	104.96	105.71	124.56	5,910.83	843.74	1,603.07	1,420.32	182.75	8.772	
16,500.00	10,453.67	17,367.05	11,373.83	106.51	107.24	124.58	6,010.83	843.07	1,603.52	1,418.22	185.30	8.653	
16,600.00	10,453.17	17,467.04	11,374.13	108.07	108.78	124.61	6,110.82	842.40	1,603.97	1,416.11	187.86	8.538	
16,700.00	10,452.67	17,567.04	11,374.43	109.62	110.32	124.63	6,210.82	841.73	1,604.42	1,414.01	190.42	8.426	
16,800.00	10,452.17	17,667.04	11,374.73	111.18	111.87	124.65	6,310.81	841.06	1,604.88	1,411.90	192.98	8.316	
16,900.00	10,451.68	17,767.04	11,375.03	112.74	113.41	124.68	6,410.81	840.39	1,605.33	1,409.78	195.54	8.210	
17,000.00	10,451.18	17,867.04	11,375.33	114.31	114.96	124.70	6,510.80	839.72	1,605.78	1,407.67	198.11	8.106	
17,100.00	10,450.68	17,967.03	11,375.63	115.88	116.52	124.72	6,610.80	839.05	1,606.23	1,405.56	200.68	8.004	
17,200.00	10,450.18	18,067.03	11,375.93	117.45	118.07	124.75	6,710.79	838.38	1,606.69	1,403.44	203.25	7.905	
17,300.00	10,449.69	18,167.03	11,376.23	119.02	119.63	124.77	6,810.79	837.71	1,607.14	1,401.32	205.82	7.808	
17,400.00	10,449.19	18,267.03	11,376.53	120.60	121.20	124.79	6,910.78	837.04	1,607.59	1,399.20	208.40	7.714	
17,500.00	10,448.69	18,367.02	11,376.83	122.17	122.76	124.82	7,010.78	836.37	1,608.05	1,397.08	210.97	7.622	
17,600.00	10,448.20	18,467.02	11,377.13	123.75	124.33	124.84	7,110.77	835.70	1,608.50	1,394.95	213.55	7.532	
17,700.00	10,447.70	18,567.02	11,377.43	125.33	125.89	124.86	7,210.77	835.03	1,608.96	1,392.83	216.13	7.445	
17,800.00	10,447.20	18,667.02	11,377.73	126.91	127.47	124.89	7,310.76	834.36	1,609.41	1,390.71	218.71	7.359	
17,900.00	10,446.71	18,767.02	11,378.03	128.50	129.04	124.91	7,410.76	833.69	1,609.87	1,388.58	221.28	7.275	
18,000.00	10,446.21	18,867.01	11,378.33	130.09	130.61	124.93	7,510.75	833.01	1,610.32	1,386.46	223.86	7.193	
18,100.00	10,445.71	18,967.01	11,378.63	131.67	132.19	124.96	7,610.75	832.34	1,610.78	1,384.33	226.45	7.113	
18,200.00	10,445.22	19,067.01	11,378.93	133.26	133.77	124.98	7,710.74	831.67	1,611.23	1,382.20	229.03	7.035	
18,300.00	10,444.72	19,167.01	11,379.24	134.86	135.35	125.00	7,810.74	831.00	1,611.69	1,380.08	231.61	6.959	
18,400.00	10,444.23	19,267.01	11,379.54	136.45	136.93	125.03	7,910.73	830.33	1,612.14	1,377.95	234.19	6.884	
18,500.00	10,443.73	19,367.00	11,379.84	138.04	138.52	125.05	8,010.73	829.66	1,612.60	1,375.83	236.77	6.811	
18,600.00	10,443.24	19,467.00	11,380.14	139.64	140.10	125.07	8,110.72	828.98	1,613.05	1,373.70	239.35	6.739	
18,700.00	10,442.74	19,567.00	11,380.44	141.24	141.69	125.10	8,210.72	828.31	1,613.51	1,371.57	241.94	6.669	
18,800.00	10,442.25	19,667.00	11,380.74	142.84	143.28	125.12	8,310.71	827.64	1,613.97	1,369.45	244.52	6.601	
18,900.00	10,441.75	19,766.99	11,381.04	144.44	144.87	125.14	8,410.71	826.97	1,614.42	1,367.32	247.10	6.533	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 603H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	10,441.26	19,866.99	11,381.34	146.04	146.46	125.17	8,510.70	826.30	1,614.88	1,365.20	249.68	6.468	
19,100.00	10,440.76	19,966.99	11,381.64	147.64	148.06	125.19	8,610.70	825.62	1,615.34	1,363.08	252.26	6.403	
19,200.00	10,440.27	20,066.99	11,381.94	149.24	149.65	125.21	8,710.69	824.95	1,615.79	1,360.95	254.84	6.340	
19,300.00	10,439.77	20,166.99	11,382.25	150.85	151.25	125.23	8,810.69	824.28	1,616.25	1,358.83	257.42	6.279	
19,400.00	10,439.28	20,266.98	11,382.55	152.45	152.85	125.26	8,910.69	823.61	1,616.71	1,356.71	260.00	6.218	
19,500.00	10,438.78	20,366.98	11,382.85	154.06	154.45	125.28	9,010.68	822.93	1,617.17	1,354.59	262.58	6.159	
19,600.00	10,438.29	20,466.98	11,383.15	155.67	156.05	125.30	9,110.68	822.26	1,617.63	1,352.47	265.16	6.101	
19,700.00	10,437.80	20,566.98	11,383.45	157.28	157.65	125.33	9,210.67	821.59	1,618.08	1,350.35	267.73	6.044	
19,800.00	10,437.30	20,666.97	11,383.75	158.89	159.25	125.35	9,310.67	820.91	1,618.54	1,348.23	270.31	5.988	
19,900.00	10,436.81	20,766.97	11,384.05	160.50	160.85	125.37	9,410.66	820.24	1,619.00	1,346.12	272.88	5.933	
20,000.00	10,436.32	20,866.97	11,384.36	162.11	162.46	125.40	9,510.66	819.57	1,619.46	1,344.00	275.46	5.879	
20,100.00	10,435.82	20,966.97	11,384.66	163.72	164.06	125.42	9,610.65	818.89	1,619.92	1,341.89	278.03	5.826	
20,200.00	10,435.33	21,066.97	11,384.96	165.34	165.67	125.44	9,710.65	818.22	1,620.38	1,339.78	280.60	5.775	
20,300.00	10,434.84	21,166.96	11,385.26	166.95	167.28	125.46	9,810.64	817.55	1,620.84	1,337.67	283.17	5.724	
20,400.00	10,434.34	21,266.96	11,385.56	168.57	168.89	125.49	9,910.64	816.87	1,621.30	1,335.56	285.74	5.674	
20,500.00	10,433.85	21,366.96	11,385.87	170.18	170.49	125.51	10,010.63	816.20	1,621.76	1,333.45	288.31	5.625	
20,600.00	10,433.36	21,466.96	11,386.17	171.80	172.11	125.53	10,110.63	815.52	1,622.22	1,331.34	290.87	5.577	
20,700.00	10,432.86	21,566.95	11,386.47	173.42	173.72	125.56	10,210.62	814.85	1,622.68	1,329.24	293.44	5.530	
20,800.00	10,432.37	21,666.95	11,386.77	175.04	175.33	125.58	10,310.62	814.18	1,623.14	1,327.14	296.00	5.484	
20,875.64	10,432.00	21,742.53	11,387.00	176.26	176.55	125.60	10,386.19	813.67	1,623.48	1,325.55	297.94	5.449	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 701H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	14.00	14.00	0.00	0.02	87.32	131.21	2,803.82	2,806.89				
100.00	100.00	114.00	114.00	0.14	0.18	87.32	131.21	2,803.82	2,806.89	2,806.57	0.32	8,773.281	
200.00	200.00	214.00	214.00	0.49	0.54	87.32	131.21	2,803.82	2,806.89	2,805.85	1.04	2,707.056	
300.00	300.00	314.00	314.00	0.85	0.90	87.32	131.21	2,803.82	2,806.89	2,805.14	1.75	1,600.442	
400.00	400.00	414.00	414.00	1.21	1.26	87.32	131.21	2,803.82	2,806.89	2,804.42	2.47	1,136.041	
500.00	500.00	514.00	514.00	1.57	1.62	87.32	131.21	2,803.82	2,806.89	2,803.70	3.19	880.536	
600.00	600.00	614.00	614.00	1.93	1.98	87.32	131.21	2,803.82	2,806.89	2,802.99	3.90	718.858	
700.00	700.00	714.00	714.00	2.29	2.34	87.32	131.21	2,803.82	2,806.89	2,802.27	4.62	607.342	
800.00	800.00	814.00	814.00	2.64	2.69	87.32	131.21	2,803.82	2,806.89	2,801.55	5.34	525.779	
900.00	900.00	914.00	914.00	3.00	3.05	87.32	131.21	2,803.82	2,806.89	2,800.84	6.06	463.529	
1,000.00	1,000.00	1,014.00	1,014.00	3.36	3.41	87.32	131.21	2,803.82	2,806.89	2,800.12	6.77	414.459	
1,100.00	1,100.00	1,114.00	1,114.00	3.72	3.77	87.32	131.21	2,803.82	2,806.89	2,799.40	7.49	374.783	
1,200.00	1,200.00	1,214.00	1,214.00	4.08	4.13	87.32	131.21	2,803.82	2,806.89	2,798.68	8.21	342.041	
1,300.00	1,300.00	1,314.00	1,314.00	4.44	4.49	87.32	131.21	2,803.82	2,806.89	2,797.97	8.92	314.559	
1,400.00	1,400.00	1,414.00	1,414.00	4.80	4.84	87.32	131.21	2,803.82	2,806.89	2,797.25	9.64	291.165	
1,500.00	1,500.00	1,514.00	1,514.00	5.15	5.20	87.32	131.21	2,803.82	2,806.89	2,796.53	10.36	271.010	
1,600.00	1,600.00	1,614.00	1,614.00	5.51	5.56	87.32	131.21	2,803.82	2,806.89	2,795.82	11.07	253.465	
1,700.00	1,700.00	1,714.00	1,714.00	5.87	5.92	87.32	131.21	2,803.82	2,806.89	2,795.10	11.79	238.053	
1,800.00	1,800.00	1,814.00	1,814.00	6.23	6.28	87.32	131.21	2,803.82	2,806.89	2,794.38	12.51	224.408	
1,900.00	1,900.00	1,914.00	1,914.00	6.59	6.64	87.32	131.21	2,803.82	2,806.89	2,793.67	13.22	212.243	
2,000.00	2,000.00	2,014.00	2,014.00	6.95	7.00	87.32	131.21	2,803.82	2,806.89	2,792.95	13.94	201.328	
2,100.00	2,100.00	2,114.00	2,114.00	7.30	7.35	87.32	131.21	2,803.82	2,806.89	2,792.23	14.66	191.482	
2,200.00	2,200.00	2,214.00	2,214.00	7.66	7.71	87.32	131.21	2,803.82	2,806.89	2,791.51	15.38	182.553	
2,300.00	2,299.98	2,313.98	2,313.98	8.01	8.07	-156.69	131.21	2,803.82	2,808.49	2,792.41	16.08	174.664	
2,400.00	2,399.84	2,485.18	2,485.17	8.34	8.67	-156.72	130.49	2,802.78	2,813.13	2,796.12	17.01	165.381	
2,500.00	2,499.45	2,974.24	2,970.34	8.68	10.35	-156.47	98.78	2,756.11	2,809.63	2,790.84	18.79	149.499	
2,600.00	2,598.70	3,115.63	3,108.72	9.03	10.88	-156.35	82.50	2,732.17	2,803.09	2,783.50	19.58	143.140	
2,700.00	2,697.47	3,215.45	3,206.36	9.38	11.26	-156.28	70.83	2,715.00	2,799.68	2,779.40	20.28	138.078	
2,756.55	2,753.06	3,271.96	3,261.64	9.59	11.48	-156.24	64.23	2,705.28	2,799.17	2,778.49	20.67	135.405	
2,800.00	2,795.62	3,315.39	3,304.12	9.75	11.65	-156.21	59.15	2,697.82	2,799.47	2,778.49	20.98	133.445	
2,900.00	2,893.44	3,415.34	3,401.89	10.13	12.05	-156.16	47.47	2,680.63	2,800.86	2,779.17	21.69	129.133	
3,000.00	2,991.25	3,515.30	3,499.66	10.51	12.45	-156.10	35.79	2,663.44	2,802.25	2,779.84	22.41	125.047	
3,100.00	3,089.07	3,615.26	3,597.43	10.91	12.86	-156.05	24.11	2,646.25	2,803.65	2,780.51	23.14	121.176	
3,200.00	3,186.88	3,715.21	3,695.21	11.31	13.28	-156.00	12.42	2,629.07	2,805.04	2,781.17	23.87	117.506	
3,300.00	3,284.70	3,815.17	3,792.98	11.72	13.70	-155.94	0.74	2,611.88	2,806.44	2,781.83	24.61	114.025	
3,400.00	3,382.51	3,915.12	3,890.75	12.14	14.13	-155.89	-10.94	2,594.69	2,807.85	2,782.49	25.36	110.722	
3,500.00	3,480.33	4,015.08	3,988.52	12.56	14.56	-155.83	-22.62	2,577.50	2,809.25	2,783.14	26.11	107.586	
3,600.00	3,578.14	4,115.03	4,086.29	12.99	15.00	-155.78	-34.31	2,560.32	2,810.66	2,783.79	26.87	104.606	
3,700.00	3,675.96	4,214.99	4,184.06	13.42	15.44	-155.73	-45.99	2,543.13	2,812.07	2,784.44	27.63	101.772	
3,800.00	3,773.77	4,314.95	4,281.83	13.86	15.88	-155.67	-57.67	2,525.94	2,813.48	2,785.08	28.40	99.075	
3,900.00	3,871.59	4,414.90	4,379.61	14.30	16.32	-155.62	-69.35	2,508.75	2,814.90	2,785.73	29.17	96.507	
4,000.00	3,969.40	4,514.86	4,477.38	14.75	16.77	-155.57	-81.03	2,491.56	2,816.31	2,786.37	29.94	94.060	
4,100.00	4,067.22	4,614.81	4,575.15	15.19	17.22	-155.51	-92.72	2,474.38	2,817.73	2,787.02	30.72	91.725	
4,200.00	4,165.03	4,714.77	4,672.92	15.64	17.68	-155.46	-104.40	2,457.19	2,819.16	2,787.66	31.50	89.497	
4,300.00	4,262.84	4,814.72	4,770.69	16.10	18.13	-155.41	-116.08	2,440.00	2,820.58	2,788.30	32.28	87.369	
4,400.00	4,360.66	4,914.68	4,868.46	16.55	18.59	-155.36	-127.76	2,422.81	2,822.01	2,788.94	33.07	85.334	
4,500.00	4,458.47	5,014.64	4,966.23	17.01	19.05	-155.30	-139.45	2,405.63	2,823.44	2,789.58	33.86	83.387	
4,529.32	4,487.15	5,043.94	4,994.90	17.14	19.18	-155.29	-142.87	2,400.59	2,823.86	2,789.77	34.09	82.832	
4,600.00	4,556.46	5,114.59	5,064.00	17.46	19.51	-155.24	-151.13	2,388.44	2,824.08	2,789.43	34.65	81.504	
4,700.00	4,655.06	5,209.69	5,157.02	17.90	19.95	-155.14	-162.24	2,372.09	2,821.69	2,786.27	35.42	79.662	
4,800.00	4,754.18	5,266.93	5,213.13	18.31	20.21	-155.04	-168.62	2,362.71	2,817.02	2,780.96	36.06	78.120	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 701H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	5,300.00	5,245.64	18.69	20.36	-154.95	-172.01	2,357.71	2,810.95	2,774.35	36.60	76.801	
5,000.00	4,953.50	5,376.25	5,320.86	19.05	20.69	-154.79	-179.04	2,347.38	2,803.02	2,765.76	37.27	75.210	
5,100.00	5,053.46	5,430.94	5,375.00	19.39	20.91	-154.63	-183.38	2,340.99	2,793.71	2,755.86	37.85	73.819	
5,129.32	5,082.78	5,446.98	5,390.91	19.49	20.98	89.42	-184.54	2,339.28	2,790.68	2,752.67	38.01	73.419	
5,200.00	5,153.46	5,500.00	5,443.56	19.71	21.19	89.50	-188.03	2,334.14	2,783.70	2,745.24	38.45	72.390	
5,300.00	5,253.46	5,540.72	5,484.07	20.04	21.35	89.54	-190.34	2,330.75	2,775.02	2,736.08	38.94	71.258	
5,400.00	5,353.46	5,600.00	5,543.15	20.36	21.58	89.60	-193.12	2,326.66	2,768.03	2,728.53	39.49	70.088	
5,500.00	5,453.46	5,651.29	5,594.33	20.68	21.76	89.64	-194.97	2,323.93	2,762.62	2,722.63	40.00	69.068	
5,600.00	5,553.46	5,700.00	5,642.99	21.00	21.93	89.66	-196.25	2,322.05	2,758.85	2,718.37	40.48	68.149	
5,700.00	5,653.46	5,762.33	5,705.29	21.33	22.14	89.68	-197.21	2,320.64	2,756.66	2,715.65	41.01	67.226	
5,800.00	5,753.46	5,824.50	5,767.46	21.65	22.34	89.69	-197.43	2,320.31	2,756.07	2,714.55	41.52	66.378	
5,900.00	5,853.46	5,924.50	5,867.46	21.98	22.66	89.69	-197.43	2,320.31	2,756.07	2,713.88	42.19	65.323	
6,000.00	5,953.46	6,024.50	5,967.46	22.31	22.97	89.69	-197.43	2,320.31	2,756.07	2,713.21	42.86	64.299	
6,100.00	6,053.46	6,124.50	6,067.46	22.64	23.29	89.69	-197.43	2,320.31	2,756.07	2,712.54	43.54	63.304	
6,200.00	6,153.46	6,224.50	6,167.46	22.97	23.61	89.69	-197.43	2,320.31	2,756.07	2,711.86	44.21	62.337	
6,300.00	6,253.46	6,324.50	6,267.46	23.30	23.93	89.69	-197.43	2,320.31	2,756.07	2,711.19	44.89	61.398	
6,400.00	6,353.46	6,424.50	6,367.46	23.63	24.25	89.69	-197.43	2,320.31	2,756.07	2,710.51	45.57	60.485	
6,500.00	6,453.46	6,524.50	6,467.46	23.96	24.57	89.69	-197.43	2,320.31	2,756.07	2,709.83	46.25	59.597	
6,600.00	6,553.46	6,624.50	6,567.46	24.30	24.89	89.69	-197.43	2,320.31	2,756.07	2,709.15	46.92	58.734	
6,700.00	6,653.46	6,724.50	6,667.46	24.63	25.21	89.69	-197.43	2,320.31	2,756.07	2,708.47	47.61	57.894	
6,800.00	6,753.46	6,824.50	6,767.46	24.96	25.54	89.69	-197.43	2,320.31	2,756.07	2,707.79	48.29	57.076	
6,900.00	6,853.46	6,924.50	6,867.46	25.30	25.86	89.69	-197.43	2,320.31	2,756.07	2,707.10	48.97	56.280	
7,000.00	6,953.46	7,024.50	6,967.46	25.64	26.19	89.69	-197.43	2,320.31	2,756.07	2,706.42	49.65	55.505	
7,100.00	7,053.46	7,124.50	7,067.46	25.97	26.52	89.69	-197.43	2,320.31	2,756.07	2,705.73	50.34	54.750	
7,200.00	7,153.46	7,224.50	7,167.46	26.31	26.84	89.69	-197.43	2,320.31	2,756.07	2,705.05	51.03	54.014	
7,300.00	7,253.46	7,324.50	7,267.46	26.65	27.17	89.69	-197.43	2,320.31	2,756.07	2,704.36	51.71	53.297	
7,400.00	7,353.46	7,424.50	7,367.46	26.98	27.50	89.69	-197.43	2,320.31	2,756.07	2,703.68	52.40	52.597	
7,500.00	7,453.46	7,524.50	7,467.46	27.32	27.83	89.69	-197.43	2,320.31	2,756.07	2,702.99	53.09	51.916	
7,600.00	7,553.46	7,624.50	7,567.46	27.66	28.16	89.69	-197.43	2,320.31	2,756.07	2,702.30	53.78	51.251	
7,700.00	7,653.46	7,724.50	7,667.46	28.00	28.49	89.69	-197.43	2,320.31	2,756.07	2,701.61	54.47	50.602	
7,800.00	7,753.46	7,824.50	7,767.46	28.34	28.83	89.69	-197.43	2,320.31	2,756.07	2,700.92	55.16	49.968	
7,900.00	7,853.46	7,924.50	7,867.46	28.68	29.16	89.69	-197.43	2,320.31	2,756.07	2,700.23	55.85	49.350	
8,000.00	7,953.46	8,024.50	7,967.46	29.02	29.49	89.69	-197.43	2,320.31	2,756.07	2,699.54	56.54	48.746	
8,100.00	8,053.46	8,124.50	8,067.46	29.36	29.83	89.69	-197.43	2,320.31	2,756.07	2,698.84	57.23	48.157	
8,200.00	8,153.46	8,224.50	8,167.46	29.71	30.16	89.69	-197.43	2,320.31	2,756.07	2,698.15	57.92	47.581	
8,300.00	8,253.46	8,324.50	8,267.46	30.05	30.50	89.69	-197.43	2,320.31	2,756.07	2,697.46	58.62	47.018	
8,400.00	8,353.46	8,424.50	8,367.46	30.39	30.83	89.69	-197.43	2,320.31	2,756.07	2,696.76	59.31	46.468	
8,500.00	8,453.46	8,524.50	8,467.46	30.73	31.17	89.69	-197.43	2,320.31	2,756.07	2,696.07	60.01	45.930	
8,600.00	8,553.46	8,624.50	8,567.46	31.08	31.50	89.69	-197.43	2,320.31	2,756.07	2,695.37	60.70	45.404	
8,700.00	8,653.46	8,724.50	8,667.46	31.42	31.84	89.69	-197.43	2,320.31	2,756.07	2,694.68	61.40	44.890	
8,800.00	8,753.46	8,824.50	8,767.46	31.76	32.18	89.69	-197.43	2,320.31	2,756.07	2,693.98	62.09	44.386	
8,900.00	8,853.46	8,924.50	8,867.46	32.11	32.52	89.69	-197.43	2,320.31	2,756.07	2,693.29	62.79	43.894	
9,000.00	8,953.46	9,024.50	8,967.46	32.45	32.85	89.69	-197.43	2,320.31	2,756.07	2,692.59	63.49	43.412	
9,100.00	9,053.46	9,124.50	9,067.46	32.80	33.19	89.69	-197.43	2,320.31	2,756.07	2,691.89	64.18	42.940	
9,200.00	9,153.46	9,224.50	9,167.46	33.14	33.53	89.69	-197.43	2,320.31	2,756.07	2,691.19	64.88	42.479	
9,300.00	9,253.46	9,324.50	9,267.46	33.49	33.87	89.69	-197.43	2,320.31	2,756.07	2,690.49	65.58	42.026	
9,400.00	9,353.46	9,424.50	9,367.46	33.83	34.21	89.69	-197.43	2,320.31	2,756.07	2,689.80	66.28	41.583	
9,500.00	9,453.46	9,524.50	9,467.46	34.18	34.55	89.69	-197.43	2,320.31	2,756.07	2,689.10	66.98	41.149	
9,600.00	9,553.46	9,624.50	9,567.46	34.53	34.89	89.69	-197.43	2,320.31	2,756.07	2,688.40	67.68	40.724	
9,700.00	9,653.46	9,724.50	9,667.46	34.87	35.23	89.69	-197.43	2,320.31	2,756.07	2,687.70	68.38	40.307	
9,800.00	9,753.46	9,824.50	9,767.46	35.22	35.58	89.69	-197.43	2,320.31	2,756.07	2,687.00	69.08	39.899	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 701H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,853.46	9,924.50	9,867.46	35.57	35.92	89.69	-197.43	2,320.31	2,756.07	2,686.30	69.78	39.498	
9,955.59	9,909.05	9,980.09	9,923.05	35.76	36.11	89.69	-197.43	2,320.31	2,756.07	2,685.91	70.17	39.279	CC
10,000.00	9,953.41	10,024.45	9,967.41	35.91	36.26	90.10	-197.43	2,320.31	2,756.08	2,685.60	70.48	39.106	
10,050.00	10,003.03	10,074.07	10,017.03	36.08	36.43	90.23	-197.43	2,320.31	2,756.09	2,685.27	70.82	38.917	
10,100.00	10,051.93	10,122.97	10,065.93	36.23	36.60	90.43	-197.43	2,320.31	2,756.16	2,685.00	71.16	38.734	
10,150.00	10,099.75	10,170.79	10,113.75	36.38	36.76	90.70	-197.43	2,320.31	2,756.31	2,684.82	71.48	38.559	
10,200.00	10,146.11	10,217.15	10,160.11	36.52	36.92	91.03	-197.43	2,320.31	2,756.61	2,684.82	71.80	38.394	
10,250.00	10,190.67	10,261.71	10,204.67	36.64	37.07	91.40	-197.43	2,320.31	2,757.16	2,685.05	72.10	38.240	
10,300.00	10,233.09	10,304.13	10,247.09	36.75	37.22	91.78	-197.43	2,320.31	2,758.02	2,685.63	72.39	38.098	
10,350.00	10,273.04	10,344.08	10,287.04	36.85	37.35	92.15	-197.43	2,320.31	2,759.32	2,686.64	72.67	37.969	
10,400.00	10,310.22	10,381.26	10,324.22	36.94	37.48	92.48	-197.43	2,320.31	2,761.14	2,688.20	72.94	37.856	
10,450.00	10,344.35	10,415.39	10,358.35	37.01	37.60	92.75	-197.43	2,320.31	2,763.59	2,690.40	73.19	37.759	
10,500.00	10,375.16	10,446.20	10,389.16	37.07	37.71	92.94	-197.43	2,320.31	2,766.77	2,693.34	73.43	37.680	
10,550.00	10,402.43	10,473.47	10,416.43	37.11	37.80	93.01	-197.43	2,320.31	2,770.76	2,697.11	73.65	37.619	
10,600.00	10,425.94	10,496.98	10,439.94	37.15	37.88	92.95	-197.43	2,320.31	2,775.64	2,701.78	73.86	37.578	
10,650.00	10,445.52	10,516.56	10,459.52	37.19	37.95	92.74	-197.43	2,320.31	2,781.47	2,707.41	74.06	37.557	
10,700.00	10,461.01	10,532.05	10,475.01	37.23	38.00	92.35	-197.43	2,320.31	2,788.28	2,714.03	74.24	37.557	
10,750.00	10,472.31	10,543.35	10,486.31	37.30	38.04	91.79	-197.43	2,320.31	2,796.07	2,721.66	74.41	37.578	
10,800.00	10,479.31	10,550.35	10,493.31	37.41	38.06	91.05	-197.43	2,320.31	2,804.83	2,730.28	74.56	37.620	
10,850.00	10,481.98	10,553.02	10,495.98	37.55	38.07	90.12	-197.43	2,320.31	2,814.53	2,739.84	74.69	37.683	
10,858.49	10,482.00	10,553.04	10,496.00	37.57	38.07	89.94	-197.43	2,320.31	2,816.26	2,741.55	74.71	37.696	
10,900.00	10,481.79	10,552.83	10,495.79	37.70	38.07	89.93	-197.43	2,320.31	2,825.09	2,750.27	74.81	37.761	
11,000.00	10,481.28	10,552.33	10,495.28	38.06	38.07	89.92	-197.43	2,320.31	2,848.73	2,773.63	75.10	37.933	
11,100.00	10,480.78	10,551.82	10,494.78	38.49	38.07	89.91	-197.43	2,320.31	2,875.65	2,800.23	75.42	38.126	
11,200.00	10,480.27	10,551.31	10,494.27	38.98	38.07	89.90	-197.43	2,320.31	2,905.77	2,829.99	75.78	38.343	
11,300.00	10,479.77	12,545.32	11,698.70	39.53	43.56	114.45	828.30	2,207.03	2,910.71	2,831.81	78.90	36.890	
11,400.00	10,479.26	12,645.32	11,698.20	40.14	44.08	114.45	928.30	2,206.37	2,910.72	2,830.74	79.98	36.392	
11,500.00	10,478.76	12,745.32	11,697.70	40.81	44.66	114.45	1,028.30	2,205.72	2,910.73	2,829.57	81.16	35.863	
11,600.00	10,478.25	12,845.32	11,697.20	41.54	45.29	114.45	1,128.29	2,205.06	2,910.74	2,828.30	82.44	35.306	
11,700.00	10,477.75	12,945.32	11,696.71	42.31	45.96	114.45	1,228.29	2,204.40	2,910.75	2,826.94	83.81	34.728	
11,800.00	10,477.24	13,045.32	11,696.21	43.14	46.69	114.45	1,328.29	2,203.75	2,910.76	2,825.49	85.28	34.134	
11,900.00	10,476.74	13,145.32	11,695.71	44.01	47.46	114.45	1,428.28	2,203.09	2,910.77	2,823.95	86.82	33.526	
12,000.00	10,476.23	13,245.32	11,695.21	44.92	48.28	114.45	1,528.28	2,202.43	2,910.78	2,822.33	88.45	32.910	
12,100.00	10,475.73	13,345.32	11,694.71	45.88	49.14	114.45	1,628.28	2,201.78	2,910.79	2,820.64	90.15	32.290	
12,200.00	10,475.22	13,445.32	11,694.21	46.87	50.04	114.45	1,728.27	2,201.12	2,910.80	2,818.88	91.92	31.667	
12,300.00	10,474.72	13,545.32	11,693.71	47.90	50.97	114.45	1,828.27	2,200.46	2,910.81	2,817.05	93.76	31.046	
12,400.00	10,474.22	13,645.32	11,693.22	48.97	51.94	114.45	1,928.27	2,199.81	2,910.82	2,815.16	95.66	30.429	
12,500.00	10,473.71	13,745.32	11,692.72	50.06	52.95	114.45	2,028.26	2,199.15	2,910.83	2,813.20	97.62	29.817	
12,600.00	10,473.21	13,845.32	11,692.22	51.19	53.98	114.46	2,128.26	2,198.49	2,910.84	2,811.19	99.64	29.213	
12,700.00	10,472.70	13,945.32	11,691.72	52.34	55.05	114.46	2,228.26	2,197.84	2,910.85	2,809.13	101.71	28.618	
12,800.00	10,472.20	14,045.32	11,691.22	53.52	56.14	114.46	2,328.25	2,197.18	2,910.86	2,807.02	103.83	28.034	
12,900.00	10,471.70	14,145.32	11,690.72	54.73	57.27	114.46	2,428.25	2,196.52	2,910.86	2,804.87	106.00	27.462	
13,000.00	10,471.19	14,245.32	11,690.22	55.96	58.41	114.46	2,528.24	2,195.87	2,910.87	2,802.67	108.21	26.901	
13,100.00	10,470.69	14,345.32	11,689.72	57.21	59.58	114.46	2,628.24	2,195.21	2,910.88	2,800.43	110.46	26.353	
13,200.00	10,470.19	14,445.32	11,689.23	58.48	60.78	114.46	2,728.24	2,194.55	2,910.89	2,798.15	112.75	25.818	
13,300.00	10,469.68	14,545.32	11,688.73	59.77	61.99	114.46	2,828.23	2,193.90	2,910.90	2,795.83	115.07	25.296	
13,400.00	10,469.18	14,645.32	11,688.23	61.07	63.23	114.46	2,928.23	2,193.24	2,910.91	2,793.48	117.44	24.787	
13,500.00	10,468.68	14,745.32	11,687.73	62.40	64.48	114.46	3,028.23	2,192.58	2,910.92	2,791.09	119.83	24.292	
13,600.00	10,468.18	14,845.32	11,687.23	63.73	65.75	114.46	3,128.22	2,191.93	2,910.93	2,788.68	122.25	23.811	
13,700.00	10,467.67	14,945.32	11,686.73	65.09	67.04	114.46	3,228.22	2,191.27	2,910.94	2,786.24	124.70	23.343	
13,800.00	10,467.17	15,045.32	11,686.23	66.46	68.34	114.46	3,328.22	2,190.62	2,910.95	2,783.77	127.18	22.888	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 701H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,466.67	15,145.32	11,685.73	67.83	69.66	114.46	3,428.21	2,189.96	2,910.96	2,781.28	129.69	22.446	
14,000.00	10,466.17	15,245.32	11,685.24	69.23	70.99	114.46	3,528.21	2,189.30	2,910.97	2,778.76	132.21	22.017	
14,100.00	10,465.67	15,345.32	11,684.74	70.63	72.34	114.45	3,628.21	2,188.65	2,910.98	2,776.22	134.76	21.601	
14,200.00	10,465.17	15,445.32	11,684.24	72.04	73.70	114.45	3,728.20	2,187.99	2,910.99	2,773.66	137.33	21.197	
14,300.00	10,464.66	15,545.32	11,683.74	73.47	75.07	114.45	3,828.20	2,187.33	2,911.00	2,771.08	139.92	20.805	
14,400.00	10,464.16	15,645.32	11,683.24	74.90	76.45	114.45	3,928.20	2,186.68	2,911.01	2,768.49	142.53	20.424	
14,500.00	10,463.66	15,745.32	11,682.74	76.34	77.84	114.45	4,028.19	2,186.02	2,911.02	2,765.87	145.15	20.055	
14,600.00	10,463.16	15,845.32	11,682.24	77.80	79.25	114.45	4,128.19	2,185.36	2,911.03	2,763.24	147.79	19.696	
14,700.00	10,462.66	15,945.32	11,681.74	79.26	80.66	114.45	4,228.19	2,184.71	2,911.04	2,760.59	150.45	19.348	
14,800.00	10,462.16	16,045.32	11,681.25	80.72	82.08	114.45	4,328.18	2,184.05	2,911.05	2,757.92	153.13	19.011	
14,900.00	10,461.66	16,145.32	11,680.75	82.20	83.51	114.45	4,428.18	2,183.39	2,911.06	2,755.25	155.82	18.683	
15,000.00	10,461.16	16,245.32	11,680.25	83.68	84.95	114.45	4,528.18	2,182.74	2,911.07	2,752.55	158.52	18.364	
15,100.00	10,460.66	16,345.32	11,679.75	85.16	86.39	114.45	4,628.17	2,182.08	2,911.08	2,749.85	161.23	18.055	
15,200.00	10,460.16	16,445.32	11,679.25	86.66	87.85	114.45	4,728.17	2,181.42	2,911.09	2,747.13	163.96	17.755	
15,300.00	10,459.66	16,545.32	11,678.75	88.16	89.31	114.45	4,828.17	2,180.77	2,911.10	2,744.40	166.70	17.463	
15,400.00	10,459.16	16,645.32	11,678.25	89.66	90.78	114.45	4,928.16	2,180.11	2,911.11	2,741.67	169.45	17.180	
15,500.00	10,458.66	16,745.32	11,677.75	91.17	92.25	114.45	5,028.16	2,179.45	2,911.12	2,738.92	172.21	16.905	
15,600.00	10,458.16	16,845.32	11,677.26	92.69	93.73	114.45	5,128.16	2,178.80	2,911.13	2,736.16	174.97	16.638	
15,700.00	10,457.66	16,945.32	11,676.76	94.21	95.22	114.45	5,228.15	2,178.14	2,911.14	2,733.39	177.75	16.378	
15,800.00	10,457.16	17,045.32	11,676.26	95.73	96.71	114.45	5,328.15	2,177.48	2,911.15	2,730.62	180.54	16.125	
15,900.00	10,456.66	17,145.32	11,675.76	97.26	98.20	114.45	5,428.15	2,176.83	2,911.16	2,727.83	183.33	15.879	
16,000.00	10,456.16	17,245.32	11,675.26	98.79	99.70	114.45	5,528.14	2,176.17	2,911.17	2,725.04	186.14	15.640	
16,100.00	10,455.66	17,345.32	11,674.76	100.33	101.21	114.45	5,628.14	2,175.51	2,911.18	2,722.24	188.95	15.407	
16,200.00	10,455.16	17,445.32	11,674.26	101.87	102.72	114.45	5,728.14	2,174.86	2,911.20	2,719.43	191.77	15.181	
16,300.00	10,454.67	17,545.32	11,673.76	103.41	104.24	114.45	5,828.13	2,174.20	2,911.21	2,716.61	194.60	14.960	
16,400.00	10,454.17	17,645.32	11,673.27	104.96	105.76	114.45	5,928.13	2,173.55	2,911.22	2,713.79	197.43	14.746	
16,500.00	10,453.67	17,745.32	11,672.77	106.51	107.28	114.45	6,028.13	2,172.89	2,911.23	2,710.96	200.27	14.537	
16,600.00	10,453.17	17,845.32	11,672.27	108.07	108.81	114.45	6,128.12	2,172.23	2,911.24	2,708.12	203.11	14.333	
16,700.00	10,452.67	17,945.32	11,671.77	109.62	110.34	114.45	6,228.12	2,171.58	2,911.25	2,705.28	205.96	14.135	
16,800.00	10,452.17	18,045.32	11,671.27	111.18	111.87	114.45	6,328.12	2,170.92	2,911.26	2,702.44	208.82	13.942	
16,900.00	10,451.68	18,145.32	11,670.77	112.74	113.41	114.45	6,428.11	2,170.26	2,911.27	2,699.59	211.68	13.753	
17,000.00	10,451.18	18,245.32	11,670.27	114.31	114.95	114.45	6,528.11	2,169.61	2,911.28	2,696.73	214.55	13.569	
17,100.00	10,450.68	18,345.32	11,669.77	115.88	116.50	114.45	6,628.11	2,168.95	2,911.29	2,693.87	217.42	13.390	
17,200.00	10,450.18	18,445.32	11,669.28	117.45	118.05	114.45	6,728.10	2,168.29	2,911.30	2,691.01	220.29	13.216	
17,300.00	10,449.69	18,545.32	11,668.78	119.02	119.60	114.45	6,828.10	2,167.64	2,911.31	2,688.14	223.18	13.045	
17,400.00	10,449.19	18,645.32	11,668.28	120.60	121.15	114.45	6,928.10	2,166.98	2,911.32	2,685.26	226.06	12.878	
17,500.00	10,448.69	18,745.32	11,667.78	122.17	122.71	114.45	7,028.09	2,166.32	2,911.33	2,682.38	228.95	12.716	
17,600.00	10,448.20	18,845.32	11,667.28	123.75	124.26	114.45	7,128.09	2,165.67	2,911.34	2,679.50	231.84	12.557	
17,700.00	10,447.70	18,945.32	11,666.78	125.33	125.83	114.45	7,228.09	2,165.01	2,911.35	2,676.61	234.74	12.402	
17,800.00	10,447.20	19,045.32	11,666.28	126.91	127.39	114.45	7,328.08	2,164.35	2,911.36	2,673.72	237.64	12.251	
17,900.00	10,446.71	19,145.32	11,665.78	128.50	128.96	114.45	7,428.08	2,163.70	2,911.38	2,670.83	240.55	12.103	
18,000.00	10,446.21	19,245.32	11,665.29	130.09	130.52	114.45	7,528.07	2,163.04	2,911.39	2,667.93	243.45	11.959	
18,100.00	10,445.71	19,345.32	11,664.79	131.67	132.09	114.45	7,628.07	2,162.38	2,911.40	2,665.03	246.36	11.818	
18,200.00	10,445.22	19,445.32	11,664.29	133.26	133.67	114.45	7,728.07	2,161.73	2,911.41	2,662.13	249.28	11.679	
18,300.00	10,444.72	19,545.32	11,663.79	134.86	135.24	114.45	7,828.06	2,161.07	2,911.42	2,659.23	252.19	11.544	
18,400.00	10,444.23	19,645.32	11,663.29	136.45	136.82	114.45	7,928.06	2,160.41	2,911.43	2,656.32	255.11	11.412	
18,500.00	10,443.73	19,745.32	11,662.79	138.04	138.40	114.45	8,028.06	2,159.76	2,911.44	2,653.41	258.04	11.283	
18,600.00	10,443.24	19,845.32	11,662.29	139.64	139.98	114.45	8,128.05	2,159.10	2,911.45	2,650.49	260.96	11.157	
18,700.00	10,442.74	19,945.32	11,661.79	141.24	141.56	114.45	8,228.05	2,158.44	2,911.46	2,647.58	263.89	11.033	
18,800.00	10,442.25	20,045.32	11,661.30	142.84	143.14	114.45	8,328.05	2,157.79	2,911.47	2,644.66	266.82	10.912	
18,900.00	10,441.75	20,145.32	11,660.80	144.44	144.73	114.45	8,428.04	2,157.13	2,911.48	2,641.74	269.75	10.793	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 701H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	10,441.26	20,245.32	11,660.30	146.04	146.31	114.45	8,528.04	2,156.48	2,911.50	2,638.81	272.68	10.677	
19,100.00	10,440.76	20,345.32	11,659.80	147.64	147.90	114.45	8,628.04	2,155.82	2,911.51	2,635.89	275.62	10.564	
19,200.00	10,440.27	20,445.32	11,659.30	149.24	149.49	114.45	8,728.03	2,155.16	2,911.52	2,632.96	278.56	10.452	
19,300.00	10,439.77	20,545.32	11,658.80	150.85	151.08	114.45	8,828.03	2,154.51	2,911.53	2,630.03	281.50	10.343	
19,400.00	10,439.28	20,645.32	11,658.30	152.45	152.67	114.45	8,928.03	2,153.85	2,911.54	2,627.10	284.44	10.236	
19,500.00	10,438.78	20,745.32	11,657.80	154.06	154.27	114.45	9,028.02	2,153.19	2,911.55	2,624.17	287.38	10.131	
19,600.00	10,438.29	20,845.32	11,657.31	155.67	155.86	114.45	9,128.02	2,152.54	2,911.56	2,621.23	290.33	10.028	
19,700.00	10,437.80	20,945.32	11,656.81	157.28	157.46	114.45	9,228.02	2,151.88	2,911.57	2,618.30	293.28	9.928	
19,800.00	10,437.30	21,045.32	11,656.31	158.89	159.06	114.45	9,328.01	2,151.22	2,911.58	2,615.36	296.22	9.829	
19,900.00	10,436.81	21,145.32	11,655.81	160.50	160.66	114.45	9,428.01	2,150.57	2,911.60	2,612.42	299.18	9.732	
20,000.00	10,436.32	21,245.32	11,655.31	162.11	162.26	114.45	9,528.01	2,149.91	2,911.61	2,609.48	302.13	9.637	
20,100.00	10,435.82	21,345.32	11,654.81	163.72	163.86	114.45	9,628.00	2,149.25	2,911.62	2,606.54	305.08	9.544	
20,200.00	10,435.33	21,445.32	11,654.31	165.34	165.46	114.45	9,728.00	2,148.60	2,911.63	2,603.59	308.04	9.452	
20,300.00	10,434.84	21,545.32	11,653.81	166.95	167.06	114.45	9,828.00	2,147.94	2,911.64	2,600.65	310.99	9.362	
20,400.00	10,434.34	21,645.32	11,653.32	168.57	168.67	114.45	9,927.99	2,147.28	2,911.65	2,597.70	313.95	9.274	
20,500.00	10,433.85	21,745.32	11,652.82	170.18	170.27	114.45	10,027.99	2,146.63	2,911.66	2,594.76	316.91	9.188	
20,600.00	10,433.36	21,845.32	11,652.32	171.80	171.88	114.45	10,127.99	2,145.97	2,911.68	2,591.81	319.87	9.103	
20,700.00	10,432.86	21,945.32	11,651.82	173.42	173.49	114.45	10,227.98	2,145.31	2,911.69	2,588.86	322.83	9.019	
20,800.00	10,432.37	22,045.32	11,651.32	175.04	175.09	114.45	10,327.98	2,144.66	2,911.70	2,585.91	325.79	8.937	
20,802.52	10,432.36	22,047.84	11,651.31	175.08	175.13	114.45	10,330.50	2,144.64	2,911.70	2,585.83	325.87	8.935	
20,875.64	10,432.00	22,109.64	11,651.00	176.26	176.13	114.45	10,392.30	2,144.24	2,911.73	2,583.93	327.80	8.883	ES, SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 702H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	14.00	14.00	0.00	0.02	83.32	331.31	2,827.52	2,846.87				
100.00	100.00	114.00	114.00	0.14	0.18	83.32	331.31	2,827.52	2,846.87	2,846.55	0.32	8,898.236	
200.00	200.00	214.00	214.00	0.49	0.54	83.32	331.31	2,827.52	2,846.87	2,845.83	1.04	2,745.612	
300.00	300.00	314.00	314.00	0.85	0.90	83.32	331.31	2,827.52	2,846.87	2,845.11	1.75	1,623.236	
400.00	400.00	414.00	414.00	1.21	1.26	83.32	331.31	2,827.52	2,846.87	2,844.40	2.47	1,152.221	
500.00	500.00	514.00	514.00	1.57	1.62	83.32	331.31	2,827.52	2,846.87	2,843.68	3.19	893.077	
600.00	600.00	614.00	614.00	1.93	1.98	83.32	331.31	2,827.52	2,846.87	2,842.96	3.90	729.097	
700.00	700.00	714.00	714.00	2.29	2.34	83.32	331.31	2,827.52	2,846.87	2,842.25	4.62	615.993	
800.00	800.00	814.00	814.00	2.64	2.69	83.32	331.31	2,827.52	2,846.87	2,841.53	5.34	533.267	
900.00	900.00	914.00	914.00	3.00	3.05	83.32	331.31	2,827.52	2,846.87	2,840.81	6.06	470.131	
1,000.00	1,000.00	1,014.00	1,014.00	3.36	3.41	83.32	331.31	2,827.52	2,846.87	2,840.10	6.77	420.362	
1,100.00	1,100.00	1,114.00	1,114.00	3.72	3.77	83.32	331.31	2,827.52	2,846.87	2,839.38	7.49	380.121	
1,200.00	1,200.00	1,214.00	1,214.00	4.08	4.13	83.32	331.31	2,827.52	2,846.87	2,838.66	8.21	346.912	
1,300.00	1,300.00	1,314.00	1,314.00	4.44	4.49	83.32	331.31	2,827.52	2,846.87	2,837.94	8.92	319.039	
1,400.00	1,400.00	1,414.00	1,414.00	4.80	4.84	83.32	331.31	2,827.52	2,846.87	2,837.23	9.64	295.312	
1,500.00	1,500.00	1,514.00	1,514.00	5.15	5.20	83.32	331.31	2,827.52	2,846.87	2,836.51	10.36	274.870	
1,600.00	1,600.00	1,614.00	1,614.00	5.51	5.56	83.32	331.31	2,827.52	2,846.87	2,835.79	11.07	257.075	
1,700.00	1,700.00	1,714.00	1,714.00	5.87	5.92	83.32	331.31	2,827.52	2,846.87	2,835.08	11.79	241.444	
1,800.00	1,800.00	1,814.00	1,814.00	6.23	6.28	83.32	331.31	2,827.52	2,846.87	2,834.36	12.51	227.604	
1,900.00	1,900.00	1,914.00	1,914.00	6.59	6.64	83.32	331.31	2,827.52	2,846.87	2,833.64	13.22	215.266	
2,000.00	2,000.00	2,014.00	2,014.00	6.95	7.00	83.32	331.31	2,827.52	2,846.87	2,832.93	13.94	204.196	
2,100.00	2,100.00	2,114.00	2,114.00	7.30	7.35	83.32	331.31	2,827.52	2,846.87	2,832.21	14.66	194.209	
2,200.00	2,200.00	2,214.00	2,214.00	7.66	7.71	83.32	331.31	2,827.52	2,846.87	2,831.49	15.38	185.153	CC, ES
2,300.00	2,299.98	2,313.98	2,313.98	8.01	8.07	-160.69	331.31	2,827.52	2,848.52	2,832.44	16.08	177.153	
2,400.00	2,399.84	2,413.84	2,413.84	8.34	8.43	-160.69	331.31	2,827.52	2,853.46	2,836.68	16.77	170.138	
2,500.00	2,499.45	2,513.45	2,513.45	8.68	8.79	-160.70	331.31	2,827.52	2,861.68	2,844.22	17.46	163.861	
2,600.00	2,598.70	2,616.50	2,616.50	9.03	9.15	-160.70	331.27	2,827.52	2,873.19	2,855.02	18.17	158.152	
2,700.00	2,697.47	2,745.22	2,745.16	9.38	9.58	-160.67	327.66	2,827.11	2,887.33	2,868.39	18.93	152.489	
2,800.00	2,795.62	2,873.78	2,873.36	9.75	10.00	-160.54	318.32	2,826.07	2,903.70	2,884.01	19.69	147.471	
2,900.00	2,893.44	3,002.15	3,000.84	10.13	10.42	-160.43	303.31	2,824.38	2,920.69	2,900.23	20.45	142.809	
3,000.00	2,991.25	3,130.22	3,127.20	10.51	10.86	-160.20	282.69	2,822.07	2,936.68	2,915.45	21.23	138.345	
3,100.00	3,089.07	3,244.36	3,239.01	10.91	11.26	-159.92	259.94	2,819.52	2,951.83	2,929.85	21.97	134.329	
3,200.00	3,186.88	3,342.35	3,334.87	11.31	11.61	-159.67	239.69	2,817.25	2,966.88	2,944.20	22.68	130.799	
3,300.00	3,284.70	3,440.35	3,430.72	11.72	11.97	-159.41	219.44	2,814.97	2,982.00	2,958.60	23.40	127.420	
3,400.00	3,382.51	3,538.34	3,526.57	12.14	12.35	-159.17	199.20	2,812.70	2,997.17	2,973.03	24.13	124.188	
3,500.00	3,480.33	3,636.33	3,622.42	12.56	12.73	-158.92	178.95	2,810.43	3,012.40	2,987.52	24.88	121.099	
3,600.00	3,578.14	3,734.33	3,718.27	12.99	13.11	-158.68	158.70	2,808.16	3,027.68	3,002.05	25.63	118.146	
3,700.00	3,675.96	3,832.32	3,814.12	13.42	13.50	-158.43	138.46	2,805.89	3,043.01	3,016.63	26.39	115.326	
3,800.00	3,773.77	3,930.31	3,909.98	13.86	13.90	-158.20	118.21	2,803.62	3,058.40	3,031.25	27.15	112.632	
3,900.00	3,871.59	4,028.30	4,005.83	14.30	14.31	-157.96	97.96	2,801.35	3,073.84	3,045.91	27.93	110.059	
4,000.00	3,969.40	4,126.30	4,101.68	14.75	14.71	-157.73	77.71	2,799.08	3,089.33	3,060.62	28.71	107.600	
4,100.00	4,067.22	4,224.29	4,197.53	15.19	15.13	-157.49	57.47	2,796.80	3,104.87	3,075.37	29.50	105.251	
4,200.00	4,165.03	4,322.28	4,293.38	15.64	15.54	-157.26	37.22	2,794.53	3,120.47	3,090.17	30.29	103.005	
4,300.00	4,262.84	4,420.28	4,389.23	16.10	15.96	-157.04	16.97	2,792.26	3,136.11	3,105.01	31.09	100.857	
4,400.00	4,360.66	4,518.27	4,485.09	16.55	16.39	-156.81	-3.27	2,789.99	3,151.80	3,119.90	31.90	98.802	
4,500.00	4,458.47	4,616.26	4,580.94	17.01	16.81	-156.59	-23.52	2,787.72	3,167.53	3,134.82	32.71	96.835	
4,529.32	4,487.15	4,644.99	4,609.04	17.14	16.94	-156.52	-29.46	2,787.05	3,172.16	3,139.21	32.95	96.274	
4,600.00	4,556.46	4,714.33	4,676.86	17.46	17.24	-156.45	-43.78	2,785.45	3,182.53	3,149.00	33.52	94.932	
4,700.00	4,655.06	4,812.63	4,773.01	17.90	17.68	-156.29	-64.09	2,783.17	3,194.54	3,160.21	34.34	93.033	
4,800.00	4,754.18	4,911.05	4,869.29	18.31	18.11	-156.09	-84.43	2,780.89	3,203.45	3,168.30	35.15	91.138	
4,900.00	4,853.70	5,009.48	4,965.57	18.69	18.55	-155.85	-104.77	2,778.61	3,209.25	3,173.29	35.96	89.250	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 702H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	5,107.80	5,061.73	19.05	18.99	-155.55	-125.08	2,776.33	3,211.96	3,175.20	36.76	87.373	
5,100.00	5,053.46	5,200.00	5,152.06	19.39	19.41	-155.24	-143.45	2,774.27	3,211.71	3,174.18	37.53	85.586	
5,129.32	5,082.78	5,221.86	5,173.55	19.49	19.50	88.84	-147.42	2,773.82	3,211.12	3,173.40	37.72	85.132	
5,200.00	5,153.46	5,282.56	5,233.38	19.71	19.76	89.02	-157.58	2,772.68	3,209.55	3,171.33	38.22	83.978	
5,300.00	5,253.46	5,369.14	5,319.07	20.04	20.12	89.24	-169.88	2,771.30	3,207.72	3,168.81	38.91	82.432	
5,400.00	5,353.46	5,456.39	5,405.76	20.36	20.46	89.41	-179.67	2,770.20	3,206.32	3,166.73	39.60	80.977	
5,500.00	5,453.46	5,544.18	5,493.24	20.68	20.79	89.54	-186.87	2,769.40	3,205.32	3,165.06	40.26	79.612	
5,600.00	5,553.46	5,632.32	5,581.27	21.00	21.10	89.62	-191.41	2,768.89	3,204.71	3,163.79	40.91	78.331	
5,700.00	5,653.46	5,720.67	5,669.59	21.33	21.40	89.66	-193.26	2,768.68	3,204.46	3,162.91	41.55	77.129	
5,740.83	5,694.29	5,759.37	5,708.29	21.46	21.53	89.66	-193.31	2,768.67	3,204.45	3,162.64	41.81	76.646	
5,800.00	5,753.46	5,818.54	5,767.46	21.65	21.71	89.66	-193.31	2,768.67	3,204.45	3,162.25	42.20	75.941	
5,900.00	5,853.46	5,918.54	5,867.46	21.98	22.03	89.66	-193.31	2,768.67	3,204.45	3,161.60	42.86	74.774	
6,000.00	5,953.46	6,018.54	5,967.46	22.31	22.35	89.66	-193.31	2,768.67	3,204.45	3,160.94	43.52	73.640	
6,100.00	6,053.46	6,118.54	6,067.46	22.64	22.67	89.66	-193.31	2,768.67	3,204.45	3,160.27	44.18	72.537	
6,200.00	6,153.46	6,218.54	6,167.46	22.97	22.99	89.66	-193.31	2,768.67	3,204.45	3,159.61	44.84	71.463	
6,300.00	6,253.46	6,318.54	6,267.46	23.30	23.31	89.66	-193.31	2,768.67	3,204.45	3,158.95	45.51	70.419	
6,400.00	6,353.46	6,418.54	6,367.46	23.63	23.63	89.66	-193.31	2,768.67	3,204.45	3,158.28	46.17	69.402	
6,500.00	6,453.46	6,518.54	6,467.46	23.96	23.96	89.66	-193.31	2,768.67	3,204.45	3,157.61	46.84	68.412	
6,600.00	6,553.46	6,618.54	6,567.46	24.30	24.28	89.66	-193.31	2,768.67	3,204.45	3,156.94	47.51	67.448	
6,700.00	6,653.46	6,718.54	6,667.46	24.63	24.61	89.66	-193.31	2,768.67	3,204.45	3,156.27	48.18	66.509	
6,800.00	6,753.46	6,818.54	6,767.46	24.96	24.93	89.66	-193.31	2,768.67	3,204.45	3,155.60	48.85	65.594	
6,900.00	6,853.46	6,918.54	6,867.46	25.30	25.26	89.66	-193.31	2,768.67	3,204.45	3,154.93	49.53	64.702	
7,000.00	6,953.46	7,018.54	6,967.46	25.64	25.59	89.66	-193.31	2,768.67	3,204.45	3,154.25	50.20	63.833	
7,100.00	7,053.46	7,118.54	7,067.46	25.97	25.92	89.66	-193.31	2,768.67	3,204.45	3,153.58	50.88	62.985	
7,200.00	7,153.46	7,218.54	7,167.46	26.31	26.25	89.66	-193.31	2,768.67	3,204.45	3,152.90	51.55	62.158	
7,300.00	7,253.46	7,318.54	7,267.46	26.65	26.58	89.66	-193.31	2,768.67	3,204.45	3,152.22	52.23	61.352	
7,400.00	7,353.46	7,418.54	7,367.46	26.98	26.91	89.66	-193.31	2,768.67	3,204.45	3,151.54	52.91	60.565	
7,500.00	7,453.46	7,518.54	7,467.46	27.32	27.24	89.66	-193.31	2,768.67	3,204.45	3,150.86	53.59	59.796	
7,600.00	7,553.46	7,618.54	7,567.46	27.66	27.58	89.66	-193.31	2,768.67	3,204.45	3,150.18	54.27	59.046	
7,700.00	7,653.46	7,718.54	7,667.46	28.00	27.91	89.66	-193.31	2,768.67	3,204.45	3,149.50	54.95	58.314	
7,800.00	7,753.46	7,818.54	7,767.46	28.34	28.24	89.66	-193.31	2,768.67	3,204.45	3,148.82	55.63	57.598	
7,900.00	7,853.46	7,918.54	7,867.46	28.68	28.58	89.66	-193.31	2,768.67	3,204.45	3,148.13	56.32	56.899	
8,000.00	7,953.46	8,018.54	7,967.46	29.02	28.91	89.66	-193.31	2,768.67	3,204.45	3,147.45	57.00	56.216	
8,100.00	8,053.46	8,118.54	8,067.46	29.36	29.25	89.66	-193.31	2,768.67	3,204.45	3,146.76	57.69	55.549	
8,200.00	8,153.46	8,218.54	8,167.46	29.71	29.58	89.66	-193.31	2,768.67	3,204.45	3,146.08	58.37	54.896	
8,300.00	8,253.46	8,318.54	8,267.46	30.05	29.92	89.66	-193.31	2,768.67	3,204.45	3,145.39	59.06	54.258	
8,400.00	8,353.46	8,418.54	8,367.46	30.39	30.26	89.66	-193.31	2,768.67	3,204.45	3,144.70	59.75	53.634	
8,500.00	8,453.46	8,518.54	8,467.46	30.73	30.60	89.66	-193.31	2,768.67	3,204.45	3,144.02	60.43	53.023	
8,600.00	8,553.46	8,618.54	8,567.46	31.08	30.93	89.66	-193.31	2,768.67	3,204.45	3,143.33	61.12	52.426	
8,700.00	8,653.46	8,718.54	8,667.46	31.42	31.27	89.66	-193.31	2,768.67	3,204.45	3,142.64	61.81	51.841	
8,800.00	8,753.46	8,818.54	8,767.46	31.76	31.61	89.66	-193.31	2,768.67	3,204.45	3,141.95	62.50	51.269	
8,900.00	8,853.46	8,918.54	8,867.46	32.11	31.95	89.66	-193.31	2,768.67	3,204.45	3,141.26	63.19	50.709	
9,000.00	8,953.46	9,018.54	8,967.46	32.45	32.29	89.66	-193.31	2,768.67	3,204.45	3,140.57	63.88	50.161	
9,100.00	9,053.46	9,118.54	9,067.46	32.80	32.63	89.66	-193.31	2,768.67	3,204.45	3,139.88	64.58	49.623	
9,200.00	9,153.46	9,218.54	9,167.46	33.14	32.97	89.66	-193.31	2,768.67	3,204.45	3,139.18	65.27	49.097	
9,300.00	9,253.46	9,318.54	9,267.46	33.49	33.31	89.66	-193.31	2,768.67	3,204.45	3,138.49	65.96	48.582	
9,400.00	9,353.46	9,418.54	9,367.46	33.83	33.65	89.66	-193.31	2,768.67	3,204.45	3,137.80	66.65	48.076	
9,500.00	9,453.46	9,518.54	9,467.46	34.18	34.00	89.66	-193.31	2,768.67	3,204.45	3,137.10	67.35	47.581	
9,600.00	9,553.46	9,618.54	9,567.46	34.53	34.34	89.66	-193.31	2,768.67	3,204.45	3,136.41	68.04	47.096	
9,700.00	9,653.46	9,718.54	9,667.46	34.87	34.68	89.66	-193.31	2,768.67	3,204.45	3,135.72	68.74	46.620	
9,800.00	9,753.46	9,818.54	9,767.46	35.22	35.02	89.66	-193.31	2,768.67	3,204.45	3,135.02	69.43	46.153	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 702H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,853.46	9,918.54	9,867.46	35.57	35.37	89.66	-193.31	2,768.67	3,204.45	3,134.33	70.13	45.695	
9,955.59	9,909.05	9,974.13	9,923.05	35.76	35.56	89.66	-193.31	2,768.67	3,204.45	3,133.94	70.51	45.445	
10,000.00	9,953.41	10,018.49	9,967.41	35.91	35.71	90.07	-193.31	2,768.67	3,204.45	3,133.63	70.82	45.248	
10,050.00	10,003.03	10,068.11	10,017.03	36.08	35.88	90.17	-193.31	2,768.67	3,204.47	3,133.31	71.16	45.033	
10,100.00	10,051.93	10,117.01	10,065.93	36.23	36.05	90.35	-193.31	2,768.67	3,204.51	3,133.03	71.49	44.826	
10,150.00	10,099.75	10,164.83	10,113.75	36.38	36.21	90.59	-193.31	2,768.67	3,204.64	3,132.83	71.81	44.629	
10,200.00	10,146.11	10,211.19	10,160.11	36.52	36.37	90.87	-193.31	2,768.67	3,204.90	3,132.78	72.11	44.443	
10,250.00	10,190.67	10,255.75	10,204.67	36.64	36.53	91.18	-193.31	2,768.67	3,205.35	3,132.95	72.41	44.269	
10,300.00	10,233.09	10,298.17	10,247.09	36.75	36.67	91.51	-193.31	2,768.67	3,206.09	3,133.41	72.69	44.109	
10,350.00	10,273.04	10,338.12	10,287.04	36.85	36.81	91.83	-193.31	2,768.67	3,207.19	3,134.24	72.95	43.963	
10,400.00	10,310.22	10,375.30	10,324.22	36.94	36.94	92.12	-193.31	2,768.67	3,208.75	3,135.55	73.20	43.834	
10,450.00	10,344.35	10,409.42	10,358.35	37.01	37.06	92.35	-193.31	2,768.67	3,210.84	3,137.41	73.44	43.721	
10,500.00	10,375.16	10,440.24	10,389.16	37.07	37.16	92.51	-193.31	2,768.67	3,213.57	3,139.91	73.66	43.627	
10,550.00	10,402.43	10,467.51	10,416.43	37.11	37.26	92.58	-193.31	2,768.67	3,216.99	3,143.12	73.87	43.551	
10,600.00	10,425.94	10,491.02	10,439.94	37.15	37.34	92.53	-193.31	2,768.67	3,221.18	3,147.12	74.06	43.494	
10,650.00	10,445.52	10,510.60	10,459.52	37.19	37.40	92.35	-193.31	2,768.67	3,226.19	3,151.95	74.24	43.457	
10,700.00	10,461.01	10,526.09	10,475.01	37.23	37.46	92.02	-193.31	2,768.67	3,232.04	3,157.64	74.40	43.441	
10,750.00	10,472.31	10,537.39	10,486.31	37.30	37.50	91.54	-193.31	2,768.67	3,238.75	3,164.20	74.55	43.445	
10,800.00	10,479.31	10,544.39	10,493.31	37.41	37.52	90.90	-193.31	2,768.67	3,246.30	3,171.62	74.68	43.470	
10,850.00	10,481.98	10,547.06	10,495.98	37.55	37.53	90.10	-193.31	2,768.67	3,254.66	3,179.87	74.79	43.515	
10,858.49	10,482.00	10,547.08	10,496.00	37.57	37.53	89.95	-193.31	2,768.67	3,256.16	3,181.35	74.81	43.524	
10,900.00	10,481.79	10,546.87	10,495.79	37.70	37.53	89.94	-193.31	2,768.67	3,263.78	3,188.88	74.90	43.573	
11,000.00	10,481.28	10,546.36	10,495.28	38.06	37.53	89.93	-193.31	2,768.67	3,284.23	3,209.07	75.16	43.697	
11,100.00	10,480.78	10,545.86	10,494.78	38.49	37.53	89.93	-193.31	2,768.67	3,307.58	3,232.12	75.46	43.834	
11,200.00	10,480.27	10,545.35	10,494.27	38.98	37.52	89.92	-193.31	2,768.67	3,333.76	3,257.96	75.80	43.984	
11,300.00	10,479.77	10,544.85	10,493.77	39.53	37.52	89.91	-193.31	2,768.67	3,362.71	3,286.55	76.17	44.148	
11,400.00	10,479.26	10,544.34	10,493.26	40.14	37.52	89.90	-193.31	2,768.67	3,394.37	3,317.80	76.57	44.330	
11,500.00	10,478.76	10,543.84	10,492.76	40.81	37.52	89.89	-193.31	2,768.67	3,428.65	3,351.65	77.00	44.529	
11,600.00	10,478.25	12,655.66	11,513.33	41.54	43.47	107.14	1,133.19	2,865.79	3,464.27	3,381.48	82.79	41.843	
11,700.00	10,477.75	12,755.66	11,512.72	42.31	44.09	107.14	1,233.19	2,865.13	3,464.24	3,380.09	84.15	41.169	
11,800.00	10,477.24	12,855.66	11,512.10	43.14	44.76	107.14	1,333.18	2,864.47	3,464.21	3,378.61	85.60	40.470	
11,900.00	10,476.74	12,955.66	11,511.48	44.01	45.49	107.14	1,433.18	2,863.80	3,464.17	3,377.03	87.14	39.752	
12,000.00	10,476.23	13,055.66	11,510.86	44.92	46.26	107.14	1,533.18	2,863.14	3,464.14	3,375.36	88.78	39.021	
12,100.00	10,475.73	13,155.66	11,510.24	45.88	47.07	107.13	1,633.17	2,862.47	3,464.11	3,373.61	90.49	38.280	
12,200.00	10,475.22	13,255.66	11,509.62	46.87	47.93	107.13	1,733.17	2,861.81	3,464.07	3,371.78	92.29	37.535	
12,300.00	10,474.72	13,355.66	11,509.00	47.90	48.84	107.13	1,833.16	2,861.15	3,464.04	3,369.88	94.16	36.790	
12,400.00	10,474.22	13,455.66	11,508.38	48.97	49.78	107.13	1,933.16	2,860.48	3,464.01	3,367.91	96.10	36.047	
12,500.00	10,473.71	13,555.66	11,507.76	50.06	50.75	107.13	2,033.15	2,859.82	3,463.97	3,365.87	98.10	35.311	
12,600.00	10,473.21	13,655.66	11,507.14	51.19	51.76	107.12	2,133.15	2,859.15	3,463.94	3,363.77	100.17	34.582	
12,700.00	10,472.70	13,755.66	11,506.53	52.34	52.81	107.12	2,233.15	2,858.49	3,463.91	3,361.62	102.29	33.863	
12,800.00	10,472.20	13,855.66	11,505.91	53.52	53.88	107.12	2,333.14	2,857.82	3,463.87	3,359.40	104.47	33.157	
12,900.00	10,471.70	13,955.66	11,505.29	54.73	54.99	107.12	2,433.14	2,857.16	3,463.84	3,357.14	106.70	32.464	
13,000.00	10,471.19	14,055.66	11,504.67	55.96	56.12	107.12	2,533.13	2,856.50	3,463.81	3,354.83	108.98	31.785	
13,100.00	10,470.69	14,155.66	11,504.05	57.21	57.27	107.12	2,633.13	2,855.83	3,463.77	3,352.48	111.30	31.122	
13,200.00	10,470.19	14,255.66	11,503.43	58.48	58.45	107.11	2,733.12	2,855.17	3,463.74	3,350.08	113.66	30.474	
13,300.00	10,469.68	14,355.66	11,502.81	59.77	59.66	107.11	2,833.12	2,854.50	3,463.71	3,347.64	116.06	29.843	
13,400.00	10,469.18	14,455.66	11,502.19	61.07	60.88	107.11	2,933.12	2,853.84	3,463.67	3,345.17	118.51	29.228	
13,500.00	10,468.68	14,555.66	11,501.57	62.40	62.13	107.11	3,033.11	2,853.18	3,463.64	3,342.66	120.98	28.629	
13,600.00	10,468.18	14,655.66	11,500.96	63.73	63.39	107.11	3,133.11	2,852.51	3,463.61	3,340.12	123.49	28.047	
13,700.00	10,467.67	14,755.66	11,500.34	65.09	64.67	107.10	3,233.10	2,851.85	3,463.58	3,337.54	126.03	27.481	
13,800.00	10,467.17	14,855.66	11,499.72	66.46	65.97	107.10	3,333.10	2,851.18	3,463.54	3,334.94	128.60	26.932	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 702H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,466.67	14,955.66	11,499.10	67.83	67.28	107.10	3,433.10	2,850.52	3,463.51	3,332.31	131.20	26.398	
14,000.00	10,466.17	15,055.66	11,498.48	69.23	68.61	107.10	3,533.09	2,849.86	3,463.48	3,329.65	133.82	25.881	
14,100.00	10,465.67	15,155.66	11,497.86	70.63	69.95	107.10	3,633.09	2,849.19	3,463.45	3,326.97	136.47	25.379	
14,200.00	10,465.17	15,255.66	11,497.24	72.04	71.31	107.10	3,733.08	2,848.53	3,463.41	3,324.27	139.14	24.892	
14,300.00	10,464.66	15,355.66	11,496.62	73.47	72.68	107.09	3,833.08	2,847.86	3,463.38	3,321.55	141.83	24.419	
14,400.00	10,464.16	15,455.66	11,496.00	74.90	74.06	107.09	3,933.07	2,847.20	3,463.35	3,318.81	144.54	23.961	
14,500.00	10,463.66	15,555.66	11,495.38	76.34	75.45	107.09	4,033.07	2,846.54	3,463.32	3,316.04	147.27	23.516	
14,600.00	10,463.16	15,655.66	11,494.77	77.80	76.85	107.09	4,133.07	2,845.87	3,463.28	3,313.26	150.02	23.085	
14,700.00	10,462.66	15,755.66	11,494.15	79.26	78.26	107.09	4,233.06	2,845.21	3,463.25	3,310.46	152.79	22.667	
14,800.00	10,462.16	15,855.66	11,493.53	80.72	79.68	107.08	4,333.06	2,844.54	3,463.22	3,307.64	155.57	22.261	
14,900.00	10,461.66	15,955.66	11,492.91	82.20	81.11	107.08	4,433.05	2,843.88	3,463.19	3,304.81	158.37	21.867	
15,000.00	10,461.16	16,055.66	11,492.29	83.68	82.55	107.08	4,533.05	2,843.21	3,463.15	3,301.97	161.19	21.486	
15,100.00	10,460.66	16,155.66	11,491.67	85.16	84.00	107.08	4,633.05	2,842.55	3,463.12	3,299.11	164.01	21.115	
15,200.00	10,460.16	16,255.66	11,491.05	86.66	85.45	107.08	4,733.04	2,841.89	3,463.09	3,296.24	166.85	20.756	
15,300.00	10,459.66	16,355.66	11,490.43	88.16	86.91	107.07	4,833.04	2,841.22	3,463.06	3,293.35	169.70	20.407	
15,400.00	10,459.16	16,455.66	11,489.81	89.66	88.38	107.07	4,933.03	2,840.56	3,463.03	3,290.46	172.57	20.068	
15,500.00	10,458.66	16,555.66	11,489.20	91.17	89.86	107.07	5,033.03	2,839.89	3,462.99	3,287.55	175.44	19.739	
15,600.00	10,458.16	16,655.66	11,488.58	92.69	91.34	107.07	5,133.02	2,839.23	3,462.96	3,284.63	178.33	19.419	
15,700.00	10,457.66	16,755.66	11,487.96	94.21	92.82	107.07	5,233.02	2,838.57	3,462.93	3,281.70	181.23	19.108	
15,800.00	10,457.16	16,855.66	11,487.34	95.73	94.32	107.06	5,333.02	2,837.90	3,462.90	3,278.77	184.13	18.807	
15,900.00	10,456.66	16,955.66	11,486.72	97.26	95.82	107.06	5,433.01	2,837.24	3,462.87	3,275.82	187.05	18.513	
16,000.00	10,456.16	17,055.66	11,486.10	98.79	97.32	107.06	5,533.01	2,836.57	3,462.83	3,272.86	189.97	18.228	
16,100.00	10,455.66	17,155.66	11,485.48	100.33	98.83	107.06	5,633.00	2,835.91	3,462.80	3,269.90	192.90	17.951	
16,200.00	10,455.16	17,255.66	11,484.86	101.87	100.34	107.06	5,733.00	2,835.25	3,462.77	3,266.93	195.84	17.681	
16,300.00	10,454.67	17,355.66	11,484.24	103.41	101.86	107.06	5,833.00	2,834.58	3,462.74	3,263.95	198.79	17.419	
16,400.00	10,454.17	17,455.65	11,483.63	104.96	103.38	107.05	5,932.99	2,833.92	3,462.71	3,260.96	201.75	17.164	
16,500.00	10,453.67	17,555.65	11,483.01	106.51	104.90	107.05	6,032.99	2,833.25	3,462.68	3,257.97	204.71	16.915	
16,600.00	10,453.17	17,655.65	11,482.39	108.07	106.43	107.05	6,132.98	2,832.59	3,462.65	3,254.97	207.68	16.673	
16,700.00	10,452.67	17,755.65	11,481.77	109.62	107.97	107.05	6,232.98	2,831.92	3,462.61	3,251.96	210.66	16.437	
16,800.00	10,452.17	17,855.65	11,481.15	111.18	109.50	107.05	6,332.97	2,831.26	3,462.58	3,248.94	213.64	16.208	
16,900.00	10,451.68	17,955.65	11,480.53	112.74	111.04	107.04	6,432.97	2,830.60	3,462.55	3,245.92	216.63	15.984	
17,000.00	10,451.18	18,055.65	11,479.91	114.31	112.59	107.04	6,532.97	2,829.93	3,462.52	3,242.90	219.62	15.766	
17,100.00	10,450.68	18,155.65	11,479.29	115.88	114.13	107.04	6,632.96	2,829.27	3,462.49	3,239.87	222.62	15.553	
17,200.00	10,450.18	18,255.65	11,478.67	117.45	115.68	107.04	6,732.96	2,828.60	3,462.46	3,236.84	225.62	15.346	
17,300.00	10,449.69	18,355.65	11,478.05	119.02	117.24	107.04	6,832.95	2,827.94	3,462.43	3,233.80	228.63	15.144	
17,400.00	10,449.19	18,455.65	11,477.44	120.60	118.79	107.03	6,932.95	2,827.28	3,462.40	3,230.75	231.64	14.947	
17,500.00	10,448.69	18,555.65	11,476.82	122.17	120.35	107.03	7,032.94	2,826.61	3,462.37	3,227.70	234.66	14.755	
17,600.00	10,448.20	18,655.65	11,476.20	123.75	121.91	107.03	7,132.94	2,825.95	3,462.33	3,224.65	237.69	14.567	
17,700.00	10,447.70	18,755.65	11,475.58	125.33	123.48	107.03	7,232.94	2,825.28	3,462.30	3,221.59	240.71	14.384	
17,800.00	10,447.20	18,855.65	11,474.96	126.91	125.04	107.03	7,332.93	2,824.62	3,462.27	3,218.53	243.74	14.205	
17,900.00	10,446.71	18,955.65	11,474.34	128.50	126.61	107.02	7,432.93	2,823.96	3,462.24	3,215.46	246.78	14.030	
18,000.00	10,446.21	19,055.65	11,473.72	130.09	128.18	107.02	7,532.92	2,823.29	3,462.21	3,212.39	249.82	13.859	
18,100.00	10,445.71	19,155.65	11,473.10	131.67	129.75	107.02	7,632.92	2,822.63	3,462.18	3,209.32	252.86	13.692	
18,200.00	10,445.22	19,255.65	11,472.48	133.26	131.33	107.02	7,732.92	2,821.96	3,462.15	3,206.25	255.90	13.529	
18,300.00	10,444.72	19,355.65	11,471.87	134.86	132.90	107.02	7,832.91	2,821.30	3,462.12	3,203.17	258.95	13.370	
18,400.00	10,444.23	19,455.65	11,471.25	136.45	134.48	107.01	7,932.91	2,820.63	3,462.09	3,200.08	262.01	13.214	
18,500.00	10,443.73	19,555.65	11,470.63	138.04	136.06	107.01	8,032.90	2,819.97	3,462.06	3,197.00	265.06	13.061	
18,600.00	10,443.24	19,655.65	11,470.01	139.64	137.64	107.01	8,132.90	2,819.31	3,462.03	3,193.91	268.12	12.912	
18,700.00	10,442.74	19,755.65	11,469.39	141.24	139.23	107.01	8,232.89	2,818.64	3,462.00	3,190.82	271.18	12.766	
18,800.00	10,442.25	19,855.65	11,468.77	142.84	140.81	107.01	8,332.89	2,817.98	3,461.97	3,187.72	274.25	12.624	
18,900.00	10,441.75	19,955.65	11,468.15	144.44	142.40	107.00	8,432.89	2,817.31	3,461.94	3,184.62	277.31	12.484	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 702H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	10,441.26	20,055.65	11,467.53	146.04	143.99	107.00	8,532.88	2,816.65	3,461.91	3,181.52	280.38	12.347	
19,100.00	10,440.76	20,155.65	11,466.91	147.64	145.58	107.00	8,632.88	2,815.99	3,461.88	3,178.42	283.45	12.213	
19,200.00	10,440.27	20,255.65	11,466.29	149.24	147.17	107.00	8,732.87	2,815.32	3,461.85	3,175.32	286.53	12.082	
19,300.00	10,439.77	20,355.65	11,465.68	150.85	148.76	107.00	8,832.87	2,814.66	3,461.82	3,172.21	289.60	11.954	
19,400.00	10,439.28	20,455.65	11,465.06	152.45	150.36	106.99	8,932.86	2,813.99	3,461.79	3,169.10	292.68	11.828	
19,500.00	10,438.78	20,555.65	11,464.44	154.06	151.95	106.99	9,032.86	2,813.33	3,461.76	3,165.99	295.76	11.704	
19,600.00	10,438.29	20,655.65	11,463.82	155.67	153.55	106.99	9,132.86	2,812.67	3,461.73	3,162.88	298.85	11.584	
19,700.00	10,437.80	20,755.65	11,463.20	157.28	155.15	106.99	9,232.85	2,812.00	3,461.70	3,159.76	301.93	11.465	
19,800.00	10,437.30	20,855.65	11,462.58	158.89	156.75	106.99	9,332.85	2,811.34	3,461.67	3,156.64	305.02	11.349	
19,900.00	10,436.81	20,955.65	11,461.96	160.50	158.35	106.98	9,432.84	2,810.67	3,461.64	3,153.53	308.11	11.235	
20,000.00	10,436.32	21,055.65	11,461.34	162.11	159.95	106.98	9,532.84	2,810.01	3,461.61	3,150.41	311.20	11.123	
20,100.00	10,435.82	21,155.65	11,460.72	163.72	161.55	106.98	9,632.84	2,809.34	3,461.58	3,147.28	314.29	11.014	
20,200.00	10,435.33	21,255.65	11,460.11	165.34	163.16	106.98	9,732.83	2,808.68	3,461.55	3,144.16	317.39	10.906	
20,300.00	10,434.84	21,355.65	11,459.49	166.95	164.76	106.98	9,832.83	2,808.02	3,461.52	3,141.03	320.48	10.801	
20,400.00	10,434.34	21,455.65	11,458.87	168.57	166.37	106.97	9,932.82	2,807.35	3,461.49	3,137.91	323.58	10.697	
20,500.00	10,433.85	21,555.65	11,458.25	170.18	167.98	106.97	10,032.82	2,806.69	3,461.46	3,134.78	326.68	10.596	
20,600.00	10,433.36	21,655.65	11,457.63	171.80	169.59	106.97	10,132.81	2,806.02	3,461.43	3,131.65	329.78	10.496	
20,700.00	10,432.86	21,755.65	11,457.01	173.42	171.19	106.97	10,232.81	2,805.36	3,461.40	3,128.51	332.89	10.398	
20,800.00	10,432.37	21,855.65	11,456.39	175.04	172.80	106.97	10,332.81	2,804.70	3,461.37	3,125.38	335.99	10.302	
20,864.27	10,432.06	21,918.92	11,456.00	176.08	173.82	106.96	10,396.07	2,804.28	3,461.35	3,123.38	337.97	10.242	
20,875.64	10,432.00	21,918.92	11,456.00	176.26	173.82	106.96	10,396.07	2,804.28	3,461.37	3,123.25	338.12	10.237	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 703H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	16.39	250.51	73.70	261.13				
100.00	100.00	100.00	100.00	0.14	0.14	16.39	250.51	73.70	261.13	260.86	0.27	964.831	
200.00	200.00	200.00	200.00	0.49	0.49	16.39	250.51	73.70	261.13	260.14	0.99	264.410	
300.00	300.00	300.00	300.00	0.85	0.85	16.39	250.51	73.70	261.13	259.42	1.70	153.196	
400.00	400.00	400.00	400.00	1.21	1.21	16.39	250.51	73.70	261.13	258.71	2.42	107.838	
500.00	500.00	500.00	500.00	1.57	1.57	16.39	250.51	73.70	261.13	257.99	3.14	83.204	
600.00	600.00	600.00	600.00	1.93	1.93	16.39	250.51	73.70	261.13	257.27	3.86	67.731	
700.00	700.00	700.00	700.00	2.29	2.29	16.39	250.51	73.70	261.13	256.56	4.57	57.111	
800.00	800.00	800.00	800.00	2.64	2.64	16.39	250.51	73.70	261.13	255.84	5.29	49.370	
900.00	900.00	900.00	900.00	3.00	3.00	16.39	250.51	73.70	261.13	255.12	6.01	43.476	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	16.39	250.51	73.70	261.13	254.40	6.72	38.840	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	16.39	250.51	73.70	261.13	253.69	7.44	35.098	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	16.39	250.51	73.70	261.13	252.97	8.16	32.013	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	16.39	250.51	73.70	261.13	252.25	8.87	29.426	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	16.39	250.51	73.70	261.13	251.54	9.59	27.227	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	16.39	250.51	73.70	261.13	250.82	10.31	25.333	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	16.39	250.51	73.70	261.13	250.10	11.02	23.686	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	16.39	250.51	73.70	261.13	249.39	11.74	22.239	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	16.39	250.51	73.70	261.13	248.67	12.46	20.960	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	16.39	250.51	73.70	261.13	247.95	13.18	19.819	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	16.39	250.51	73.70	261.13	247.24	13.89	18.796	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	16.39	250.51	73.70	261.13	246.52	14.61	17.874	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	16.39	250.51	73.70	261.13	245.80	15.33	17.038	
2,300.00	2,299.98	2,299.98	2,299.98	8.01	8.02	132.65	250.51	73.70	262.31	246.28	16.03	16.363	
2,400.00	2,399.84	2,399.84	2,399.84	8.34	8.38	133.43	250.51	73.70	265.88	249.16	16.72	15.898	
2,500.00	2,499.45	2,499.45	2,499.45	8.68	8.74	134.67	250.51	73.70	271.95	254.54	17.42	15.612	
2,600.00	2,598.70	2,598.70	2,598.70	9.03	9.09	136.31	250.51	73.70	280.68	262.56	18.12	15.493	
2,700.00	2,697.47	2,697.47	2,697.47	9.38	9.45	138.27	250.51	73.70	292.24	273.43	18.82	15.531	
2,800.00	2,795.62	2,795.62	2,795.62	9.75	9.80	140.43	250.51	73.70	306.83	287.32	19.52	15.722	
2,900.00	2,893.44	2,893.44	2,893.44	10.13	10.15	142.76	250.51	73.70	323.27	303.05	20.22	15.989	
3,000.00	2,991.25	2,991.25	2,991.25	10.51	10.50	144.87	250.51	73.70	340.18	319.26	20.92	16.261	
3,100.00	3,089.07	3,089.07	3,089.07	10.91	10.85	146.77	250.51	73.70	357.50	335.88	21.62	16.532	
3,200.00	3,186.88	3,186.88	3,186.88	11.31	11.20	148.50	250.51	73.70	375.17	352.84	22.33	16.801	
3,300.00	3,284.70	3,298.03	3,298.01	11.72	11.58	150.25	249.25	72.60	391.71	368.64	23.07	16.980	
3,400.00	3,382.51	3,412.59	3,412.39	12.14	11.96	151.84	244.57	68.52	404.65	380.87	23.78	17.019	
3,500.00	3,480.33	3,528.25	3,527.53	12.56	12.34	153.28	236.36	61.35	413.83	389.37	24.46	16.920	
3,600.00	3,578.14	3,644.65	3,642.87	12.99	12.73	154.63	224.57	51.05	419.18	394.07	25.11	16.694	
3,700.00	3,675.96	3,761.41	3,757.83	13.42	13.14	155.93	209.21	37.64	420.64	394.91	25.73	16.350	
3,800.00	3,773.77	3,866.74	3,860.90	13.86	13.51	157.09	192.90	23.40	419.10	392.71	26.39	15.880	
3,900.00	3,871.59	3,966.40	3,958.39	14.30	13.87	158.19	177.29	9.77	417.50	390.41	27.09	15.411	
4,000.00	3,969.40	4,066.06	4,055.87	14.75	14.24	159.30	161.69	-3.85	416.06	388.26	27.80	14.969	
4,100.00	4,067.22	4,165.72	4,153.35	15.19	14.62	160.42	146.08	-17.48	414.77	386.27	28.50	14.553	
4,200.00	4,165.03	4,265.38	4,250.83	15.64	15.00	161.55	130.47	-31.11	413.65	384.44	29.21	14.162	
4,300.00	4,262.84	4,365.04	4,348.31	16.10	15.39	162.68	114.86	-44.74	412.69	382.77	29.92	13.793	
4,400.00	4,360.66	4,464.70	4,445.80	16.55	15.78	163.82	99.26	-58.37	411.89	381.25	30.63	13.446	
4,500.00	4,458.47	4,564.36	4,543.28	17.01	16.18	164.96	83.65	-72.00	411.25	379.90	31.35	13.118	
4,529.32	4,487.15	4,593.58	4,571.86	17.14	16.30	165.29	79.07	-75.99	411.09	379.53	31.56	13.026	
4,600.00	4,556.46	4,664.02	4,640.77	17.46	16.59	166.07	68.04	-85.62	409.93	377.86	32.07	12.783	
4,700.00	4,655.06	4,763.66	4,738.22	17.90	17.00	167.06	52.43	-99.25	405.51	372.73	32.78	12.369	
4,800.00	4,754.18	4,863.14	4,835.53	18.31	17.41	167.97	36.85	-112.85	397.82	364.32	33.50	11.876	
4,900.00	4,853.70	4,962.35	4,932.57	18.69	17.83	168.80	21.32	-126.42	386.82	352.62	34.21	11.308	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 703H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	5,061.17	5,029.23	19.05	18.25	169.57	5.84	-139.93	372.52	337.60	34.92	10.669	
5,100.00	5,053.46	5,159.47	5,125.38	19.39	18.67	170.31	-9.55	-153.38	354.90	319.28	35.61	9.965	
5,129.32	5,082.78	5,188.18	5,153.46	19.49	18.79	54.53	-14.05	-157.30	349.10	313.28	35.82	9.746	
5,200.00	5,153.46	5,257.31	5,221.09	19.71	19.09	55.11	-24.88	-166.76	334.81	298.50	36.31	9.222	
5,300.00	5,253.46	5,355.13	5,316.77	20.04	19.51	56.02	-40.20	-180.13	314.64	277.64	37.00	8.504	
5,400.00	5,353.46	5,452.94	5,412.44	20.36	19.94	57.06	-55.52	-193.51	294.57	256.87	37.70	7.814	
5,500.00	5,453.46	5,550.76	5,508.12	20.68	20.37	58.25	-70.83	-206.88	274.60	236.20	38.40	7.150	
5,600.00	5,553.46	5,648.57	5,603.80	21.00	20.80	59.62	-86.15	-220.26	254.77	215.65	39.12	6.513	
5,700.00	5,653.46	5,746.39	5,699.48	21.33	21.23	61.23	-101.47	-233.64	235.10	195.26	39.84	5.901	
5,800.00	5,753.46	5,844.20	5,795.15	21.65	21.67	63.12	-116.79	-247.01	215.63	175.06	40.57	5.315	
5,900.00	5,853.46	5,942.02	5,890.83	21.98	22.10	65.39	-132.11	-260.39	196.45	155.12	41.33	4.753	
6,000.00	5,953.46	6,039.83	5,986.51	22.31	22.54	68.13	-147.43	-273.76	177.62	135.51	42.11	4.218	
6,100.00	6,053.46	6,137.64	6,082.18	22.64	22.99	71.51	-162.75	-287.14	159.28	116.36	42.92	3.711	
6,200.00	6,153.46	6,232.23	6,174.91	22.97	23.40	75.34	-176.77	-299.38	142.55	98.69	43.86	3.250	
6,300.00	6,253.46	6,327.21	6,268.59	23.30	23.81	79.27	-188.56	-309.67	129.18	84.38	44.80	2.883	
6,400.00	6,353.46	6,423.15	6,363.69	23.63	24.20	83.05	-198.08	-317.99	119.05	73.34	45.70	2.605	
6,500.00	6,453.46	6,519.83	6,459.90	23.96	24.57	86.31	-205.25	-324.25	111.89	65.34	46.55	2.404	
6,600.00	6,553.46	6,617.06	6,556.92	24.30	24.93	88.69	-209.98	-328.38	107.42	60.10	47.32	2.270	
6,700.00	6,653.46	6,714.60	6,654.41	24.63	25.26	89.89	-212.24	-330.35	105.37	57.37	48.00	2.195	
6,755.69	6,709.14	6,769.34	6,709.14	24.82	25.44	90.00	-212.44	-330.53	105.19	56.85	48.35	2.176	
6,800.00	6,753.46	6,813.65	6,753.46	24.96	25.58	90.00	-212.44	-330.53	105.19	56.55	48.65	2.162	
6,900.00	6,853.46	6,913.65	6,853.46	25.30	25.90	90.00	-212.44	-330.53	105.19	55.87	49.32	2.133	
7,000.00	6,953.46	7,013.65	6,953.46	25.64	26.22	90.00	-212.44	-330.53	105.19	55.20	50.00	2.104	
7,100.00	7,053.46	7,113.65	7,053.46	25.97	26.55	90.00	-212.44	-330.53	105.19	54.52	50.67	2.076	
7,200.00	7,153.46	7,213.65	7,153.46	26.31	26.87	90.00	-212.44	-330.53	105.19	53.84	51.35	2.048	
7,300.00	7,253.46	7,313.65	7,253.46	26.65	27.19	90.00	-212.44	-330.53	105.19	53.16	52.03	2.022	
7,400.00	7,353.46	7,413.65	7,353.46	26.98	27.52	90.00	-212.44	-330.53	105.19	52.48	52.71	1.996	
7,500.00	7,453.46	7,513.65	7,453.46	27.32	27.84	90.00	-212.44	-330.53	105.19	51.80	53.39	1.970	
7,600.00	7,553.46	7,613.65	7,553.46	27.66	28.17	90.00	-212.44	-330.53	105.19	51.12	54.07	1.945	
7,700.00	7,653.46	7,713.65	7,653.46	28.00	28.50	90.00	-212.44	-330.53	105.19	50.44	54.76	1.921	
7,800.00	7,753.46	7,813.65	7,753.46	28.34	28.83	90.00	-212.44	-330.53	105.19	49.75	55.44	1.897	
7,900.00	7,853.46	7,913.65	7,853.46	28.68	29.15	90.00	-212.44	-330.53	105.19	49.07	56.12	1.874	
8,000.00	7,953.46	8,013.65	7,953.46	29.02	29.48	90.00	-212.44	-330.53	105.19	48.38	56.81	1.852	
8,100.00	8,053.46	8,113.65	8,053.46	29.36	29.81	90.00	-212.44	-330.53	105.19	47.70	57.50	1.830	
8,200.00	8,153.46	8,213.65	8,153.46	29.71	30.15	90.00	-212.44	-330.53	105.19	47.01	58.18	1.808	
8,300.00	8,253.46	8,313.65	8,253.46	30.05	30.48	90.00	-212.44	-330.53	105.19	46.32	58.87	1.787	
8,400.00	8,353.46	8,413.65	8,353.46	30.39	30.81	90.00	-212.44	-330.53	105.19	45.64	59.56	1.766	
8,500.00	8,453.46	8,513.65	8,453.46	30.73	31.14	90.00	-212.44	-330.53	105.19	44.95	60.25	1.746	
8,600.00	8,553.46	8,613.65	8,553.46	31.08	31.47	90.00	-212.44	-330.53	105.19	44.26	60.94	1.726	
8,700.00	8,653.46	8,713.65	8,653.46	31.42	31.81	90.00	-212.44	-330.53	105.19	43.57	61.63	1.707	
8,800.00	8,753.46	8,813.65	8,753.46	31.76	32.14	90.00	-212.44	-330.53	105.19	42.88	62.32	1.688	
8,900.00	8,853.46	8,913.65	8,853.46	32.11	32.48	90.00	-212.44	-330.53	105.19	42.19	63.01	1.670	
9,000.00	8,953.46	9,013.65	8,953.46	32.45	32.81	90.00	-212.44	-330.53	105.19	41.49	63.70	1.651	
9,100.00	9,053.46	9,113.65	9,053.46	32.80	33.15	90.00	-212.44	-330.53	105.19	40.80	64.39	1.634	
9,200.00	9,153.46	9,213.65	9,153.46	33.14	33.48	90.00	-212.44	-330.53	105.19	40.11	65.08	1.616	
9,300.00	9,253.46	9,313.65	9,253.46	33.49	33.82	90.00	-212.44	-330.53	105.19	39.42	65.78	1.599	
9,400.00	9,353.46	9,413.65	9,353.46	33.83	34.16	90.00	-212.44	-330.53	105.19	38.72	66.47	1.583	
9,500.00	9,453.46	9,513.65	9,453.46	34.18	34.50	90.00	-212.44	-330.53	105.19	38.03	67.17	1.566	
9,600.00	9,553.46	9,613.65	9,553.46	34.53	34.83	90.00	-212.44	-330.53	105.19	37.33	67.86	1.550	
9,700.00	9,653.46	9,713.65	9,653.46	34.87	35.17	90.00	-212.44	-330.53	105.19	36.64	68.56	1.534	
9,800.00	9,753.46	9,813.65	9,753.46	35.22	35.51	90.00	-212.44	-330.53	105.19	35.94	69.25	1.519	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 703H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,853.46	9,913.65	9,853.46	35.57	35.85	90.00	-212.44	-330.53	105.19	35.25	69.95	1.504	
9,955.59	9,909.05	9,969.24	9,909.05	35.76	36.04	90.00	-212.44	-330.53	105.19	34.86	70.34	1.496	Level 3, CC
9,955.88	9,909.33	9,969.52	9,909.33	35.76	36.04	90.38	-212.44	-330.53	105.19	34.86	70.34	1.496	Level 3
10,000.00	9,953.41	10,013.60	9,953.41	35.91	36.19	91.31	-212.44	-330.53	105.22	34.54	70.68	1.489	Level 3
10,050.00	10,003.03	10,063.22	10,003.03	36.08	36.36	94.54	-212.44	-330.53	105.53	34.40	71.13	1.484	Level 3, ES, SF
10,100.00	10,051.93	10,112.12	10,051.93	36.23	36.53	99.82	-212.44	-330.53	106.86	35.19	71.66	1.491	Level 3
10,150.00	10,099.75	10,159.94	10,099.75	36.38	36.69	106.65	-212.44	-330.53	110.36	38.11	72.24	1.528	
10,200.00	10,146.11	10,206.30	10,146.11	36.52	36.85	114.25	-212.44	-330.53	117.36	44.54	72.82	1.612	
10,250.00	10,190.67	10,250.86	10,190.67	36.64	37.00	121.73	-212.44	-330.53	129.01	55.69	73.32	1.759	
10,300.00	10,233.09	10,293.28	10,233.09	36.75	37.14	128.41	-212.44	-330.53	145.92	72.20	73.72	1.979	
10,350.00	10,273.04	10,333.23	10,273.04	36.85	37.28	133.92	-212.44	-330.53	168.14	94.14	74.00	2.272	
10,400.00	10,310.22	10,370.41	10,310.22	36.94	37.40	138.17	-212.44	-330.53	195.32	121.12	74.21	2.632	
10,450.00	10,344.35	10,404.54	10,344.35	37.01	37.52	141.19	-212.44	-330.53	226.95	152.59	74.36	3.052	
10,500.00	10,375.16	10,435.35	10,375.16	37.07	37.63	143.05	-212.44	-330.53	262.46	187.98	74.48	3.524	
10,550.00	10,402.43	10,462.62	10,402.43	37.11	37.72	143.77	-212.44	-330.53	301.31	226.74	74.57	4.041	
10,600.00	10,425.94	10,486.13	10,425.94	37.15	37.80	143.25	-212.44	-330.53	342.99	268.35	74.64	4.595	
10,650.00	10,445.52	10,505.71	10,445.52	37.19	37.87	141.19	-212.44	-330.53	387.02	312.33	74.69	5.182	
10,700.00	10,461.01	10,521.20	10,461.01	37.23	37.92	136.96	-212.44	-330.53	432.94	358.22	74.72	5.794	
10,750.00	10,472.31	10,532.50	10,472.31	37.30	37.96	129.23	-212.44	-330.53	480.32	405.58	74.74	6.427	
10,800.00	10,479.31	10,539.50	10,479.31	37.41	37.98	115.51	-212.44	-330.53	528.72	453.99	74.73	7.075	
10,850.00	10,481.98	10,542.17	10,481.98	37.55	37.99	93.02	-212.44	-330.53	577.72	503.00	74.72	7.732	
10,858.49	10,482.00	10,542.19	10,482.00	37.57	37.99	88.41	-212.44	-330.53	586.07	511.36	74.71	7.844	
10,900.00	10,481.79	10,541.98	10,481.79	37.70	37.99	88.30	-212.44	-330.53	626.95	552.26	74.69	8.394	
11,000.00	10,481.28	10,541.48	10,481.28	38.06	37.99	88.02	-212.44	-330.53	725.73	651.07	74.66	9.721	
11,100.00	10,480.78	10,540.97	10,480.78	38.49	37.99	87.75	-212.44	-330.53	824.80	750.17	74.63	11.052	
11,200.00	10,480.27	10,540.46	10,480.27	38.98	37.99	87.47	-212.44	-330.53	924.07	849.46	74.61	12.385	
11,300.00	10,479.77	10,539.96	10,479.77	39.53	37.98	87.20	-212.44	-330.53	1,023.48	948.88	74.60	13.720	
11,400.00	10,479.26	10,539.45	10,479.26	40.14	37.98	86.93	-212.44	-330.53	1,122.99	1,048.41	74.59	15.056	
11,500.00	10,478.76	12,667.17	11,626.34	40.81	43.69	-179.95	1,006.03	-444.78	1,147.58	1,099.09	48.49	23.664	
11,600.00	10,478.25	12,767.17	11,626.24	41.54	44.29	-179.95	1,106.02	-445.43	1,147.99	1,098.86	49.13	23.367	
11,700.00	10,477.75	12,867.17	11,626.14	42.31	44.93	-179.95	1,206.02	-446.09	1,148.39	1,098.59	49.80	23.059	
11,800.00	10,477.24	12,967.16	11,626.04	43.14	45.62	-179.95	1,306.02	-446.75	1,148.80	1,098.28	50.52	22.741	
11,900.00	10,476.74	13,067.16	11,625.94	44.01	46.36	-179.95	1,406.01	-447.41	1,149.20	1,097.93	51.27	22.415	
12,000.00	10,476.23	13,167.16	11,625.84	44.92	47.15	-179.95	1,506.01	-448.06	1,149.61	1,097.55	52.06	22.084	
12,100.00	10,475.73	13,267.16	11,625.74	45.88	47.98	-179.95	1,606.01	-448.72	1,150.01	1,097.13	52.88	21.747	
12,200.00	10,475.22	13,367.16	11,625.64	46.87	48.85	-179.95	1,706.01	-449.38	1,150.42	1,096.68	53.74	21.408	
12,300.00	10,474.72	13,467.16	11,625.54	47.90	49.76	-179.95	1,806.00	-450.04	1,150.82	1,096.20	54.63	21.067	
12,400.00	10,474.22	13,567.16	11,625.44	48.97	50.71	-179.95	1,906.00	-450.69	1,151.23	1,095.68	55.54	20.726	
12,500.00	10,473.71	13,667.16	11,625.34	50.06	51.69	-179.95	2,006.00	-451.35	1,151.63	1,095.14	56.49	20.386	
12,600.00	10,473.21	13,767.16	11,625.24	51.19	52.71	-179.96	2,105.99	-452.01	1,152.03	1,094.57	57.47	20.047	
12,700.00	10,472.70	13,867.16	11,625.14	52.34	53.75	-179.96	2,205.99	-452.67	1,152.44	1,093.97	58.47	19.711	
12,800.00	10,472.20	13,967.16	11,625.04	53.52	54.83	-179.96	2,305.99	-453.32	1,152.84	1,093.35	59.49	19.378	
12,900.00	10,471.70	14,067.16	11,624.94	54.73	55.94	-179.96	2,405.98	-453.98	1,153.25	1,092.71	60.54	19.049	
13,000.00	10,471.19	14,167.16	11,624.84	55.96	57.07	-179.96	2,505.98	-454.64	1,153.65	1,092.04	61.61	18.725	
13,100.00	10,470.69	14,267.15	11,624.74	57.21	58.22	-179.96	2,605.98	-455.30	1,154.05	1,091.35	62.70	18.405	
13,200.00	10,470.19	14,367.15	11,624.64	58.48	59.40	-179.96	2,705.98	-455.96	1,154.46	1,090.64	63.81	18.091	
13,300.00	10,469.68	14,467.15	11,624.54	59.77	60.61	-179.96	2,805.97	-456.61	1,154.86	1,089.92	64.94	17.782	
13,400.00	10,469.18	14,567.15	11,624.44	61.07	61.83	-179.96	2,905.97	-457.27	1,155.26	1,089.17	66.09	17.480	
13,500.00	10,468.68	14,667.15	11,624.34	62.40	63.07	-179.96	3,005.97	-457.93	1,155.67	1,088.41	67.26	17.183	
13,600.00	10,468.18	14,767.15	11,624.24	63.73	64.33	-179.96	3,105.96	-458.59	1,156.07	1,087.63	68.44	16.892	
13,700.00	10,467.67	14,867.15	11,624.15	65.09	65.61	-179.96	3,205.96	-459.24	1,156.47	1,086.84	69.63	16.608	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 703H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	10,467.17	14,967.15	11,624.05	66.46	66.91	-179.96	3,305.96	-459.90	1,156.87	1,086.03	70.84	16.330	
13,900.00	10,466.67	15,067.15	11,623.95	67.83	68.22	-179.96	3,405.95	-460.56	1,157.28	1,085.21	72.07	16.058	
14,000.00	10,466.17	15,167.15	11,623.85	69.23	69.54	-179.96	3,505.95	-461.22	1,157.68	1,084.37	73.31	15.792	
14,100.00	10,465.67	15,267.15	11,623.75	70.63	70.88	-179.96	3,605.95	-461.87	1,158.08	1,083.52	74.56	15.533	
14,200.00	10,465.17	15,367.15	11,623.65	72.04	72.23	-179.96	3,705.95	-462.53	1,158.48	1,082.66	75.82	15.280	
14,300.00	10,464.66	15,467.14	11,623.55	73.47	73.60	-179.96	3,805.94	-463.19	1,158.88	1,081.79	77.09	15.033	
14,400.00	10,464.16	15,567.14	11,623.45	74.90	74.98	-179.96	3,905.94	-463.85	1,159.29	1,080.91	78.37	14.792	
14,500.00	10,463.66	15,667.14	11,623.35	76.34	76.36	-179.96	4,005.94	-464.50	1,159.69	1,080.02	79.67	14.556	
14,600.00	10,463.16	15,767.14	11,623.25	77.80	77.76	-179.96	4,105.93	-465.16	1,160.09	1,079.12	80.97	14.327	
14,700.00	10,462.66	15,867.14	11,623.15	79.26	79.17	-179.96	4,205.93	-465.82	1,160.49	1,078.20	82.29	14.103	
14,800.00	10,462.16	15,967.14	11,623.05	80.72	80.59	-179.96	4,305.93	-466.48	1,160.89	1,077.28	83.61	13.885	
14,900.00	10,461.66	16,067.14	11,622.95	82.20	82.01	-179.96	4,405.92	-467.13	1,161.29	1,076.35	84.94	13.672	
15,000.00	10,461.16	16,167.14	11,622.85	83.68	83.45	-179.97	4,505.92	-467.79	1,161.69	1,075.42	86.28	13.465	
15,100.00	10,460.66	16,267.14	11,622.75	85.16	84.89	-179.97	4,605.92	-468.45	1,162.09	1,074.47	87.62	13.263	
15,200.00	10,460.16	16,367.14	11,622.65	86.66	86.34	-179.97	4,705.91	-469.11	1,162.49	1,073.52	88.98	13.065	
15,300.00	10,459.66	16,467.14	11,622.55	88.16	87.80	-179.97	4,805.91	-469.77	1,162.89	1,072.56	90.34	12.873	
15,400.00	10,459.16	16,567.14	11,622.45	89.66	89.26	-179.97	4,905.91	-470.42	1,163.29	1,071.59	91.70	12.685	
15,500.00	10,458.66	16,667.14	11,622.35	91.17	90.74	-179.97	5,005.91	-471.08	1,163.69	1,070.62	93.08	12.503	
15,600.00	10,458.16	16,767.13	11,622.25	92.69	92.21	-179.97	5,105.90	-471.74	1,164.09	1,069.64	94.46	12.324	
15,700.00	10,457.66	16,867.13	11,622.15	94.21	93.70	-179.97	5,205.90	-472.40	1,164.49	1,068.65	95.84	12.150	
15,800.00	10,457.16	16,967.13	11,622.05	95.73	95.19	-179.97	5,305.90	-473.05	1,164.89	1,067.66	97.23	11.981	
15,900.00	10,456.66	17,067.13	11,621.95	97.26	96.68	-179.97	5,405.89	-473.71	1,165.29	1,066.67	98.63	11.815	
16,000.00	10,456.16	17,167.13	11,621.85	98.79	98.18	-179.97	5,505.89	-474.37	1,165.69	1,065.66	100.03	11.654	
16,100.00	10,455.66	17,267.13	11,621.76	100.33	99.68	-179.97	5,605.89	-475.03	1,166.09	1,064.66	101.43	11.496	
16,200.00	10,455.16	17,367.13	11,621.66	101.87	101.19	-179.97	5,705.88	-475.68	1,166.49	1,063.65	102.85	11.342	
16,300.00	10,454.67	17,467.13	11,621.56	103.41	102.71	-179.97	5,805.88	-476.34	1,166.89	1,062.63	104.26	11.192	
16,400.00	10,454.17	17,567.13	11,621.46	104.96	104.23	-179.97	5,905.88	-477.00	1,167.29	1,061.61	105.68	11.045	
16,500.00	10,453.67	17,667.13	11,621.36	106.51	105.75	-179.97	6,005.88	-477.66	1,167.69	1,060.58	107.10	10.902	
16,600.00	10,453.17	17,767.13	11,621.26	108.07	107.28	-179.97	6,105.87	-478.31	1,168.09	1,059.55	108.53	10.763	
16,700.00	10,452.67	17,867.13	11,621.16	109.62	108.81	-179.97	6,205.87	-478.97	1,168.49	1,058.52	109.96	10.626	
16,800.00	10,452.17	17,967.12	11,621.06	111.18	110.34	-179.97	6,305.87	-479.63	1,168.88	1,057.48	111.40	10.493	
16,900.00	10,451.68	18,067.12	11,620.96	112.74	111.88	-179.98	6,405.86	-480.29	1,169.28	1,056.44	112.84	10.362	
17,000.00	10,451.18	18,167.12	11,620.86	114.31	113.42	-179.98	6,505.86	-480.94	1,169.68	1,055.40	114.28	10.235	
17,100.00	10,450.68	18,267.12	11,620.76	115.88	114.96	-179.98	6,605.86	-481.60	1,170.08	1,054.35	115.73	10.111	
17,200.00	10,450.18	18,367.12	11,620.66	117.45	116.51	-179.98	6,705.85	-482.26	1,170.48	1,053.30	117.18	9.989	
17,300.00	10,449.69	18,467.12	11,620.56	119.02	118.06	-179.98	6,805.85	-482.92	1,170.87	1,052.25	118.63	9.870	
17,400.00	10,449.19	18,567.12	11,620.46	120.60	119.61	-179.98	6,905.85	-483.58	1,171.27	1,051.19	120.08	9.754	
17,500.00	10,448.69	18,667.12	11,620.36	122.17	121.17	-179.98	7,005.85	-484.23	1,171.67	1,050.13	121.54	9.640	
17,600.00	10,448.20	18,767.12	11,620.26	123.75	122.72	-179.98	7,105.84	-484.89	1,172.07	1,049.06	123.00	9.529	
17,700.00	10,447.70	18,867.12	11,620.16	125.33	124.29	-179.98	7,205.84	-485.55	1,172.46	1,048.00	124.46	9.420	
17,800.00	10,447.20	18,967.12	11,620.06	126.91	125.85	-179.98	7,305.84	-486.21	1,172.86	1,046.93	125.93	9.314	
17,900.00	10,446.71	19,067.12	11,619.96	128.50	127.41	-179.98	7,405.83	-486.86	1,173.26	1,045.86	127.40	9.209	
18,000.00	10,446.21	19,167.12	11,619.86	130.09	128.98	-179.98	7,505.83	-487.52	1,173.65	1,044.78	128.87	9.107	
18,100.00	10,445.71	19,267.11	11,619.76	131.67	130.55	-179.98	7,605.83	-488.18	1,174.05	1,043.71	130.34	9.007	
18,200.00	10,445.22	19,367.11	11,619.66	133.26	132.12	-179.98	7,705.82	-488.84	1,174.45	1,042.63	131.82	8.910	
18,300.00	10,444.72	19,467.11	11,619.56	134.86	133.70	-179.98	7,805.82	-489.49	1,174.84	1,041.55	133.29	8.814	
18,400.00	10,444.23	19,567.11	11,619.46	136.45	135.27	-179.98	7,905.82	-490.15	1,175.24	1,040.46	134.77	8.720	
18,500.00	10,443.73	19,667.11	11,619.36	138.04	136.85	-179.98	8,005.82	-490.81	1,175.63	1,039.38	136.25	8.628	
18,600.00	10,443.24	19,767.11	11,619.27	139.64	138.43	-179.99	8,105.81	-491.47	1,176.03	1,038.29	137.74	8.538	
18,700.00	10,442.74	19,867.11	11,619.17	141.24	140.01	-179.99	8,205.81	-492.12	1,176.43	1,037.20	139.22	8.450	
18,800.00	10,442.25	19,967.11	11,619.07	142.84	141.60	-179.99	8,305.81	-492.78	1,176.82	1,036.11	140.71	8.363	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 703H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	10,441.75	20,067.11	11,618.97	144.44	143.18	-179.99	8,405.80	-493.44	1,177.22	1,035.02	142.20	8.279	
19,000.00	10,441.26	20,167.11	11,618.87	146.04	144.77	-179.99	8,505.80	-494.10	1,177.61	1,033.92	143.69	8.195	
19,100.00	10,440.76	20,267.11	11,618.77	147.64	146.36	-179.99	8,605.80	-494.76	1,178.01	1,032.82	145.18	8.114	
19,200.00	10,440.27	20,367.11	11,618.67	149.24	147.95	-179.99	8,705.79	-495.41	1,178.40	1,031.73	146.68	8.034	
19,300.00	10,439.77	20,467.11	11,618.57	150.85	149.54	-179.99	8,805.79	-496.07	1,178.80	1,030.62	148.17	7.956	
19,400.00	10,439.28	20,567.10	11,618.47	152.45	151.13	-179.99	8,905.79	-496.73	1,179.19	1,029.52	149.67	7.879	
19,500.00	10,438.78	20,667.10	11,618.37	154.06	152.72	-179.99	9,005.79	-497.39	1,179.59	1,028.42	151.17	7.803	
19,600.00	10,438.29	20,767.10	11,618.27	155.67	154.32	-179.99	9,105.78	-498.04	1,179.98	1,027.31	152.67	7.729	
19,700.00	10,437.80	20,867.10	11,618.17	157.28	155.91	-179.99	9,205.78	-498.70	1,180.37	1,026.21	154.17	7.656	
19,800.00	10,437.30	20,967.10	11,618.07	158.89	157.51	-179.99	9,305.78	-499.36	1,180.77	1,025.10	155.67	7.585	
19,900.00	10,436.81	21,067.10	11,617.97	160.50	159.11	-179.99	9,405.77	-500.02	1,181.16	1,023.99	157.17	7.515	
20,000.00	10,436.32	21,167.10	11,617.87	162.11	160.71	-179.99	9,505.77	-500.67	1,181.56	1,022.88	158.68	7.446	
20,100.00	10,435.82	21,267.10	11,617.77	163.72	162.31	-179.99	9,605.77	-501.33	1,181.95	1,021.77	160.19	7.379	
20,200.00	10,435.33	21,367.10	11,617.67	165.34	163.91	-180.00	9,705.77	-501.99	1,182.34	1,020.65	161.69	7.312	
20,300.00	10,434.84	21,467.10	11,617.57	166.95	165.52	-180.00	9,805.76	-502.65	1,182.74	1,019.54	163.20	7.247	
20,400.00	10,434.34	21,567.10	11,617.47	168.57	167.12	-180.00	9,905.76	-503.30	1,183.13	1,018.42	164.71	7.183	
20,500.00	10,433.85	21,667.10	11,617.37	170.18	168.73	-180.00	10,005.76	-503.96	1,183.52	1,017.30	166.22	7.120	
20,600.00	10,433.36	21,767.10	11,617.27	171.80	170.33	-180.00	10,105.75	-504.62	1,183.92	1,016.18	167.73	7.058	
20,700.00	10,432.86	21,867.09	11,617.17	173.42	171.94	-180.00	10,205.75	-505.28	1,184.31	1,015.06	169.25	6.998	
20,800.00	10,432.37	21,967.09	11,617.07	175.04	173.55	-180.00	10,305.75	-505.93	1,184.70	1,013.94	170.76	6.938	
20,875.64	10,432.00	22,041.55	11,617.00	176.26	174.75	180.00	10,380.20	-506.42	1,185.00	1,013.12	171.88	6.894	

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 704H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.62	0.50	75.00	75.00				
100.00	100.00	100.00	100.00	0.14	0.14	89.62	0.50	75.00	75.00	74.73	0.27	277.133	
200.00	200.00	200.00	200.00	0.49	0.49	89.62	0.50	75.00	75.00	74.02	0.99	75.947	
300.00	300.00	300.00	300.00	0.85	0.85	89.62	0.50	75.00	75.00	73.30	1.70	44.003	
400.00	400.00	400.00	400.00	1.21	1.21	89.62	0.50	75.00	75.00	72.58	2.42	30.975	
500.00	500.00	500.00	500.00	1.57	1.57	89.62	0.50	75.00	75.00	71.87	3.14	23.899	
600.00	600.00	600.00	600.00	1.93	1.93	89.62	0.50	75.00	75.00	71.15	3.86	19.455	
700.00	700.00	700.00	700.00	2.29	2.29	89.62	0.50	75.00	75.00	70.43	4.57	16.404	
800.00	800.00	800.00	800.00	2.64	2.64	89.62	0.50	75.00	75.00	69.72	5.29	14.181	
900.00	900.00	900.00	900.00	3.00	3.00	89.62	0.50	75.00	75.00	69.00	6.01	12.488	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	89.62	0.50	75.00	75.00	68.28	6.72	11.156	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	89.62	0.50	75.00	75.00	67.56	7.44	10.081	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	89.62	0.50	75.00	75.00	66.85	8.16	9.195	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	89.62	0.50	75.00	75.00	66.13	8.87	8.452	
1,400.00	1,400.00	1,400.00	1,400.00	4.80	4.80	89.62	0.50	75.00	75.00	65.41	9.59	7.820	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	89.62	0.50	75.00	75.00	64.70	10.31	7.276	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	89.62	0.50	75.00	75.00	63.98	11.02	6.803	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	89.62	0.50	75.00	75.00	63.26	11.74	6.388	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	89.62	0.50	75.00	75.00	62.55	12.46	6.020	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	89.62	0.50	75.00	75.00	61.83	13.18	5.693	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	89.62	0.50	75.00	75.00	61.11	13.89	5.399	CC, ES
2,100.00	2,100.00	2,098.48	2,098.46	7.30	7.28	90.66	-0.88	75.99	76.01	61.42	14.58	5.212	
2,200.00	2,200.00	2,196.72	2,196.56	7.66	7.61	93.62	-4.99	78.93	79.16	63.91	15.25	5.190	
2,300.00	2,299.98	2,294.45	2,293.93	8.01	7.93	-146.55	-11.80	83.79	86.29	70.39	15.90	5.427	
2,400.00	2,399.84	2,391.29	2,390.07	8.34	8.26	-143.08	-21.21	90.52	98.96	82.44	16.52	5.991	
2,500.00	2,499.45	2,486.85	2,484.51	8.68	8.59	-140.32	-33.08	99.00	117.06	99.93	17.13	6.835	
2,600.00	2,598.70	2,580.78	2,576.81	9.03	8.93	-138.26	-47.23	109.12	140.39	122.67	17.72	7.922	
2,700.00	2,697.47	2,676.12	2,670.08	9.38	9.28	-136.96	-63.31	120.61	167.99	149.61	18.37	9.142	
2,800.00	2,795.62	2,771.47	2,763.35	9.75	9.64	-136.58	-79.44	132.13	198.10	179.04	19.06	10.396	
2,900.00	2,893.44	2,866.43	2,856.23	10.13	10.02	-136.93	-95.50	143.61	229.42	209.67	19.75	11.618	
3,000.00	2,991.25	2,961.39	2,949.11	10.51	10.40	-137.20	-111.56	155.09	260.75	240.30	20.45	12.753	
3,100.00	3,089.07	3,056.35	3,042.00	10.91	10.78	-137.41	-127.62	166.57	292.08	270.93	21.15	13.807	
3,200.00	3,186.88	3,151.31	3,134.88	11.31	11.18	-137.58	-143.69	178.05	323.42	301.55	21.87	14.787	
3,300.00	3,284.70	3,247.49	3,228.97	11.72	11.58	-137.72	-159.93	189.66	354.74	332.13	22.61	15.688	
3,400.00	3,382.51	3,353.51	3,333.14	12.14	12.02	-138.09	-175.92	201.09	384.40	360.93	23.47	16.381	
3,500.00	3,480.33	3,461.16	3,439.60	12.56	12.45	-138.78	-188.94	210.39	411.34	387.03	24.31	16.919	
3,600.00	3,578.14	3,570.19	3,547.94	12.99	12.87	-139.75	-198.79	217.44	435.57	410.42	25.15	17.322	
3,700.00	3,675.96	3,680.29	3,657.74	13.42	13.28	-140.97	-205.34	222.11	457.12	431.16	25.96	17.609	
3,800.00	3,773.77	3,791.15	3,768.53	13.86	13.66	-142.43	-208.45	224.34	476.09	449.34	26.75	17.799	
3,900.00	3,871.59	3,894.21	3,871.59	14.30	14.01	-143.95	-208.72	224.53	493.08	465.59	27.49	17.939	
4,000.00	3,969.40	3,992.02	3,969.40	14.75	14.34	-145.31	-208.72	224.53	510.16	481.96	28.20	18.090	
4,100.00	4,067.22	4,089.84	4,067.22	15.19	14.67	-146.59	-208.72	224.53	527.50	498.59	28.92	18.242	
4,200.00	4,165.03	4,187.65	4,165.03	15.64	14.99	-147.78	-208.72	224.53	545.09	515.46	29.63	18.396	
4,300.00	4,262.84	4,285.47	4,262.84	16.10	15.33	-148.91	-208.72	224.53	562.90	532.55	30.34	18.550	
4,400.00	4,360.66	4,383.28	4,360.66	16.55	15.66	-149.96	-208.72	224.53	580.90	549.84	31.06	18.704	
4,500.00	4,458.47	4,481.10	4,458.47	17.01	15.99	-150.95	-208.72	224.53	599.08	567.31	31.77	18.857	
4,529.32	4,487.15	4,509.77	4,487.15	17.14	16.09	-151.23	-208.72	224.53	604.45	572.47	31.98	18.901	
4,600.00	4,556.46	4,579.09	4,556.46	17.46	16.32	-151.96	-208.72	224.53	616.68	584.19	32.48	18.985	
4,700.00	4,655.06	4,677.68	4,655.06	17.90	16.66	-152.81	-208.72	224.53	631.48	598.29	33.19	19.026	
4,800.00	4,754.18	4,776.80	4,754.18	18.31	17.00	-153.45	-208.72	224.53	643.27	609.38	33.90	18.978	
4,900.00	4,853.70	4,876.32	4,853.70	18.69	17.34	-153.91	-208.72	224.53	652.01	617.41	34.60	18.845	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 704H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,953.50	4,976.12	4,953.50	19.05	17.68	-154.20	-208.72	224.53	657.63	622.34	35.29	18.633	
5,100.00	5,053.46	5,076.08	5,053.46	19.39	18.02	-154.32	-208.72	224.53	660.13	624.14	35.99	18.344	
5,129.32	5,082.78	5,105.40	5,082.78	19.49	18.12	89.68	-208.72	224.53	660.26	624.08	36.19	18.246	
5,200.00	5,153.46	5,176.08	5,153.46	19.71	18.37	89.68	-208.72	224.53	660.26	623.59	36.67	18.006	
5,300.00	5,253.46	5,276.08	5,253.46	20.04	18.71	89.68	-208.72	224.53	660.26	622.91	37.35	17.676	
5,400.00	5,353.46	5,376.08	5,353.46	20.36	19.06	89.68	-208.72	224.53	660.26	622.22	38.04	17.358	
5,500.00	5,453.46	5,476.08	5,453.46	20.68	19.40	89.68	-208.72	224.53	660.26	621.54	38.72	17.051	
5,600.00	5,553.46	5,576.08	5,553.46	21.00	19.75	89.68	-208.72	224.53	660.26	620.85	39.41	16.753	
5,700.00	5,653.46	5,676.08	5,653.46	21.33	20.10	89.68	-208.72	224.53	660.26	620.16	40.10	16.466	
5,800.00	5,753.46	5,776.08	5,753.46	21.65	20.44	89.68	-208.72	224.53	660.26	619.47	40.79	16.188	
5,900.00	5,853.46	5,876.08	5,853.46	21.98	20.79	89.68	-208.72	224.53	660.26	618.78	41.48	15.918	
6,000.00	5,953.46	5,976.08	5,953.46	22.31	21.14	89.68	-208.72	224.53	660.26	618.09	42.17	15.658	
6,100.00	6,053.46	6,076.08	6,053.46	22.64	21.49	89.68	-208.72	224.53	660.26	617.40	42.86	15.405	
6,200.00	6,153.46	6,176.08	6,153.46	22.97	21.83	89.68	-208.72	224.53	660.26	616.71	43.55	15.160	
6,300.00	6,253.46	6,276.08	6,253.46	23.30	22.18	89.68	-208.72	224.53	660.26	616.02	44.25	14.922	
6,400.00	6,353.46	6,376.08	6,353.46	23.63	22.53	89.68	-208.72	224.53	660.26	615.32	44.94	14.692	
6,500.00	6,453.46	6,476.08	6,453.46	23.96	22.88	89.68	-208.72	224.53	660.26	614.63	45.63	14.468	
6,600.00	6,553.46	6,576.08	6,553.46	24.30	23.23	89.68	-208.72	224.53	660.26	613.93	46.33	14.251	
6,700.00	6,653.46	6,676.08	6,653.46	24.63	23.58	89.68	-208.72	224.53	660.26	613.24	47.03	14.040	
6,800.00	6,753.46	6,776.08	6,753.46	24.96	23.93	89.68	-208.72	224.53	660.26	612.54	47.72	13.835	
6,900.00	6,853.46	6,876.08	6,853.46	25.30	24.28	89.68	-208.72	224.53	660.26	611.84	48.42	13.636	
7,000.00	6,953.46	6,976.08	6,953.46	25.64	24.63	89.68	-208.72	224.53	660.26	611.14	49.12	13.442	
7,100.00	7,053.46	7,076.08	7,053.46	25.97	24.98	89.68	-208.72	224.53	660.26	610.45	49.82	13.254	
7,200.00	7,153.46	7,176.08	7,153.46	26.31	25.33	89.68	-208.72	224.53	660.26	609.75	50.52	13.071	
7,300.00	7,253.46	7,276.08	7,253.46	26.65	25.69	89.68	-208.72	224.53	660.26	609.05	51.21	12.892	
7,400.00	7,353.46	7,376.08	7,353.46	26.98	26.04	89.68	-208.72	224.53	660.26	608.35	51.91	12.718	
7,500.00	7,453.46	7,476.08	7,453.46	27.32	26.39	89.68	-208.72	224.53	660.26	607.65	52.62	12.549	
7,600.00	7,553.46	7,576.08	7,553.46	27.66	26.74	89.68	-208.72	224.53	660.26	606.95	53.32	12.384	
7,700.00	7,653.46	7,676.08	7,653.46	28.00	27.09	89.68	-208.72	224.53	660.26	606.25	54.02	12.223	
7,800.00	7,753.46	7,776.08	7,753.46	28.34	27.44	89.68	-208.72	224.53	660.26	605.54	54.72	12.067	
7,900.00	7,853.46	7,876.08	7,853.46	28.68	27.80	89.68	-208.72	224.53	660.26	604.84	55.42	11.914	
8,000.00	7,953.46	7,976.08	7,953.46	29.02	28.15	89.68	-208.72	224.53	660.26	604.14	56.12	11.765	
8,100.00	8,053.46	8,076.08	8,053.46	29.36	28.50	89.68	-208.72	224.53	660.26	603.44	56.83	11.619	
8,200.00	8,153.46	8,176.08	8,153.46	29.71	28.85	89.68	-208.72	224.53	660.26	602.73	57.53	11.477	
8,300.00	8,253.46	8,276.08	8,253.46	30.05	29.21	89.68	-208.72	224.53	660.26	602.03	58.23	11.338	
8,400.00	8,353.46	8,376.08	8,353.46	30.39	29.56	89.68	-208.72	224.53	660.26	601.33	58.94	11.203	
8,500.00	8,453.46	8,476.08	8,453.46	30.73	29.91	89.68	-208.72	224.53	660.26	600.62	59.64	11.071	
8,600.00	8,553.46	8,576.08	8,553.46	31.08	30.27	89.68	-208.72	224.53	660.26	599.92	60.34	10.942	
8,700.00	8,653.46	8,676.08	8,653.46	31.42	30.62	89.68	-208.72	224.53	660.26	599.21	61.05	10.815	
8,800.00	8,753.46	8,776.08	8,753.46	31.76	30.97	89.68	-208.72	224.53	660.26	598.51	61.75	10.692	
8,900.00	8,853.46	8,876.08	8,853.46	32.11	31.33	89.68	-208.72	224.53	660.26	597.80	62.46	10.571	
9,000.00	8,953.46	8,976.08	8,953.46	32.45	31.68	89.68	-208.72	224.53	660.26	597.10	63.16	10.453	
9,100.00	9,053.46	9,076.08	9,053.46	32.80	32.04	89.68	-208.72	224.53	660.26	596.39	63.87	10.338	
9,200.00	9,153.46	9,176.08	9,153.46	33.14	32.39	89.68	-208.72	224.53	660.26	595.69	64.58	10.225	
9,300.00	9,253.46	9,276.08	9,253.46	33.49	32.74	89.68	-208.72	224.53	660.26	594.98	65.28	10.114	
9,400.00	9,353.46	9,376.08	9,353.46	33.83	33.10	89.68	-208.72	224.53	660.26	594.27	65.99	10.006	
9,500.00	9,453.46	9,476.08	9,453.46	34.18	33.45	89.68	-208.72	224.53	660.26	593.57	66.70	9.900	
9,600.00	9,553.46	9,576.08	9,553.46	34.53	33.81	89.68	-208.72	224.53	660.26	592.86	67.40	9.796	
9,700.00	9,653.46	9,676.08	9,653.46	34.87	34.16	89.68	-208.72	224.53	660.26	592.15	68.11	9.694	
9,800.00	9,753.46	9,776.08	9,753.46	35.22	34.52	89.68	-208.72	224.53	660.26	591.45	68.82	9.594	
9,900.00	9,853.46	9,876.08	9,853.46	35.57	34.87	89.68	-208.72	224.53	660.26	590.74	69.52	9.497	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 704H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,955.59	9,909.05	9,931.67	9,909.05	35.76	35.07	89.68	-208.72	224.53	660.26	590.34	69.92	9.443	
9,956.57	9,910.03	9,932.65	9,910.03	35.76	35.07	90.06	-208.72	224.53	660.26	590.34	69.92	9.442	
10,000.00	9,953.41	9,976.04	9,953.41	35.91	35.22	90.21	-208.72	224.53	660.27	590.04	70.23	9.401	
10,050.00	10,003.03	10,025.65	10,003.03	36.08	35.40	90.72	-208.72	224.53	660.32	589.74	70.58	9.356	
10,100.00	10,051.93	10,074.56	10,051.93	36.23	35.57	91.58	-208.72	224.53	660.53	589.61	70.92	9.314	
10,150.00	10,099.75	10,122.37	10,099.75	36.38	35.74	92.72	-208.72	224.53	661.10	589.86	71.24	9.279	
10,200.00	10,146.11	10,168.73	10,146.11	36.52	35.91	94.10	-208.72	224.53	662.31	590.75	71.56	9.255	
10,250.00	10,190.67	10,213.29	10,190.67	36.64	36.07	95.62	-208.72	224.53	664.47	592.60	71.87	9.246	
10,300.00	10,233.09	10,255.71	10,233.09	36.75	36.22	97.20	-208.72	224.53	667.96	595.80	72.16	9.257	
10,350.00	10,273.04	10,295.66	10,273.04	36.85	36.36	98.72	-208.72	224.53	673.16	600.73	72.43	9.294	
10,400.00	10,310.22	10,332.84	10,310.22	36.94	36.49	100.09	-208.72	224.53	680.46	607.77	72.69	9.361	
10,450.00	10,344.35	10,366.97	10,344.35	37.01	36.61	101.20	-208.72	224.53	690.20	617.27	72.92	9.465	
10,500.00	10,375.16	10,397.78	10,375.16	37.07	36.72	101.96	-208.72	224.53	702.67	629.53	73.14	9.607	
10,550.00	10,402.43	10,425.05	10,402.43	37.11	36.82	102.26	-208.72	224.53	718.08	644.75	73.33	9.792	
10,600.00	10,425.94	10,448.56	10,425.94	37.15	36.90	102.04	-208.72	224.53	736.54	663.04	73.50	10.021	
10,650.00	10,445.52	10,468.14	10,445.52	37.19	36.97	101.20	-208.72	224.53	758.05	684.41	73.64	10.294	
10,700.00	10,461.01	10,483.63	10,461.01	37.23	37.03	99.68	-208.72	224.53	782.49	708.74	73.75	10.610	
10,750.00	10,472.31	10,494.93	10,472.31	37.30	37.07	97.41	-208.72	224.53	809.66	735.83	73.83	10.967	
10,800.00	10,479.31	10,501.94	10,479.31	37.41	37.09	94.35	-208.72	224.53	839.28	765.39	73.88	11.360	
10,850.00	10,481.98	10,504.60	10,481.98	37.55	37.10	90.48	-208.72	224.53	870.97	797.07	73.91	11.784	
10,858.49	10,482.00	10,504.62	10,482.00	37.57	37.10	89.75	-208.72	224.53	876.54	802.63	73.91	11.859	
10,900.00	10,481.79	10,504.41	10,481.79	37.70	37.10	89.73	-208.72	224.53	904.38	830.46	73.92	12.235	
11,000.00	10,481.28	10,503.91	10,481.28	38.06	37.10	89.68	-208.72	224.53	975.45	901.51	73.94	13.192	
11,100.00	10,480.78	10,503.40	10,480.78	38.49	37.10	89.64	-208.72	224.53	1,051.24	977.27	73.97	14.212	
11,200.00	10,480.27	10,502.90	10,480.27	38.98	37.09	89.60	-208.72	224.53	1,130.80	1,056.81	73.99	15.283	
11,300.00	10,479.77	12,249.61	11,450.67	39.53	42.65	145.78	812.16	217.76	1,174.14	1,113.91	60.23	19.493	
11,400.00	10,479.26	12,349.61	11,450.37	40.14	43.22	145.79	912.16	217.09	1,174.31	1,113.30	61.02	19.246	
11,500.00	10,478.76	12,449.61	11,450.08	40.81	43.84	145.79	1,012.16	216.43	1,174.49	1,112.62	61.87	18.984	
11,600.00	10,478.25	12,549.62	11,449.78	41.54	44.51	145.80	1,112.16	215.77	1,174.66	1,111.87	62.79	18.708	
11,700.00	10,477.75	12,649.62	11,449.48	42.31	45.24	145.81	1,212.16	215.10	1,174.83	1,111.06	63.77	18.423	
11,800.00	10,477.24	12,749.62	11,449.19	43.14	46.02	145.81	1,312.16	214.44	1,175.00	1,110.19	64.81	18.130	
11,900.00	10,476.74	12,849.62	11,448.89	44.01	46.84	145.82	1,412.15	213.77	1,175.17	1,109.26	65.91	17.830	
12,000.00	10,476.23	12,949.62	11,448.59	44.92	47.70	145.82	1,512.15	213.11	1,175.34	1,108.28	67.07	17.525	
12,100.00	10,475.73	13,049.62	11,448.29	45.88	48.60	145.83	1,612.15	212.44	1,175.51	1,107.24	68.27	17.218	
12,200.00	10,475.22	13,149.62	11,448.00	46.87	49.55	145.83	1,712.15	211.78	1,175.69	1,106.16	69.52	16.911	
12,300.00	10,474.72	13,249.62	11,447.70	47.90	50.53	145.84	1,812.15	211.11	1,175.86	1,105.04	70.82	16.603	
12,400.00	10,474.22	13,349.62	11,447.40	48.97	51.54	145.85	1,912.15	210.45	1,176.03	1,103.86	72.16	16.297	
12,500.00	10,473.71	13,449.63	11,447.10	50.06	52.59	145.85	2,012.15	209.78	1,176.20	1,102.65	73.55	15.993	
12,600.00	10,473.21	13,549.63	11,446.81	51.19	53.67	145.86	2,112.14	209.12	1,176.37	1,101.40	74.96	15.692	
12,700.00	10,472.70	13,649.63	11,446.51	52.34	54.78	145.86	2,212.14	208.45	1,176.54	1,100.12	76.42	15.396	
12,800.00	10,472.20	13,749.63	11,446.21	53.52	55.91	145.87	2,312.14	207.79	1,176.71	1,098.80	77.91	15.104	
12,900.00	10,471.70	13,849.63	11,445.91	54.73	57.07	145.87	2,412.14	207.12	1,176.88	1,097.45	79.43	14.817	
13,000.00	10,471.19	13,949.63	11,445.61	55.96	58.25	145.88	2,512.14	206.45	1,177.05	1,096.07	80.98	14.536	
13,100.00	10,470.69	14,049.63	11,445.32	57.21	59.46	145.88	2,612.14	205.79	1,177.22	1,094.66	82.55	14.260	
13,200.00	10,470.19	14,149.63	11,445.02	58.48	60.69	145.89	2,712.14	205.12	1,177.39	1,093.23	84.15	13.991	
13,300.00	10,469.68	14,249.64	11,444.72	59.77	61.93	145.90	2,812.13	204.46	1,177.55	1,091.77	85.78	13.728	
13,400.00	10,469.18	14,349.64	11,444.42	61.07	63.20	145.90	2,912.13	203.79	1,177.72	1,090.29	87.43	13.471	
13,500.00	10,468.68	14,449.64	11,444.12	62.40	64.48	145.91	3,012.13	203.12	1,177.89	1,088.79	89.10	13.220	
13,600.00	10,468.18	14,549.64	11,443.83	63.73	65.78	145.91	3,112.13	202.46	1,178.06	1,087.27	90.79	12.976	
13,700.00	10,467.67	14,649.64	11,443.53	65.09	67.10	145.92	3,212.13	201.79	1,178.23	1,085.73	92.50	12.738	
13,800.00	10,467.17	14,749.64	11,443.23	66.46	68.43	145.92	3,312.13	201.12	1,178.40	1,084.18	94.22	12.507	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 704H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,466.67	14,849.64	11,442.93	67.83	69.78	145.93	3,412.13	200.46	1,178.56	1,082.60	95.96	12.282	
14,000.00	10,466.17	14,949.64	11,442.63	69.23	71.13	145.94	3,512.12	199.79	1,178.73	1,081.02	97.72	12.063	
14,100.00	10,465.67	15,049.65	11,442.33	70.63	72.50	145.94	3,612.12	199.12	1,178.90	1,079.41	99.49	11.850	
14,200.00	10,465.17	15,149.65	11,442.04	72.04	73.89	145.95	3,712.12	198.45	1,179.07	1,077.80	101.27	11.643	
14,300.00	10,464.66	15,249.65	11,441.74	73.47	75.28	145.95	3,812.12	197.79	1,179.23	1,076.17	103.07	11.442	
14,400.00	10,464.16	15,349.65	11,441.44	74.90	76.68	145.96	3,912.12	197.12	1,179.40	1,074.53	104.87	11.246	
14,500.00	10,463.66	15,449.65	11,441.14	76.34	78.10	145.96	4,012.12	196.45	1,179.57	1,072.88	106.69	11.056	
14,600.00	10,463.16	15,549.65	11,440.84	77.80	79.52	145.97	4,112.11	195.78	1,179.74	1,071.22	108.52	10.871	
14,700.00	10,462.66	15,649.65	11,440.54	79.26	80.95	145.97	4,212.11	195.11	1,179.90	1,069.55	110.36	10.692	
14,800.00	10,462.16	15,749.65	11,440.24	80.72	82.39	145.98	4,312.11	194.44	1,180.07	1,067.87	112.20	10.517	
14,900.00	10,461.66	15,849.65	11,439.95	82.20	83.84	145.99	4,412.11	193.78	1,180.23	1,066.18	114.06	10.348	
15,000.00	10,461.16	15,949.66	11,439.65	83.68	85.30	145.99	4,512.11	193.11	1,180.40	1,064.48	115.92	10.183	
15,100.00	10,460.66	16,049.66	11,439.35	85.16	86.76	146.00	4,612.11	192.44	1,180.57	1,062.78	117.79	10.023	
15,200.00	10,460.16	16,149.66	11,439.05	86.66	88.23	146.00	4,712.11	191.77	1,180.73	1,061.07	119.67	9.867	
15,300.00	10,459.66	16,249.66	11,438.75	88.16	89.71	146.01	4,812.10	191.10	1,180.90	1,059.35	121.55	9.715	
15,400.00	10,459.16	16,349.66	11,438.45	89.66	91.19	146.01	4,912.10	190.43	1,181.06	1,057.63	123.44	9.568	
15,500.00	10,458.66	16,449.66	11,438.15	91.17	92.68	146.02	5,012.10	189.76	1,181.23	1,055.90	125.33	9.425	
15,600.00	10,458.16	16,549.66	11,437.85	92.69	94.17	146.02	5,112.10	189.09	1,181.39	1,054.16	127.23	9.285	
15,700.00	10,457.66	16,649.66	11,437.55	94.21	95.67	146.03	5,212.10	188.42	1,181.56	1,052.43	129.13	9.150	
15,800.00	10,457.16	16,749.67	11,437.25	95.73	97.18	146.04	5,312.10	187.75	1,181.72	1,050.68	131.04	9.018	
15,900.00	10,456.66	16,849.67	11,436.95	97.26	98.69	146.04	5,412.10	187.08	1,181.89	1,048.93	132.95	8.889	
16,000.00	10,456.16	16,949.67	11,436.65	98.79	100.20	146.05	5,512.09	186.41	1,182.05	1,047.18	134.87	8.764	
16,100.00	10,455.66	17,049.67	11,436.35	100.33	101.72	146.05	5,612.09	185.74	1,182.22	1,045.43	136.79	8.643	
16,200.00	10,455.16	17,149.67	11,436.06	101.87	103.24	146.06	5,712.09	185.07	1,182.38	1,043.67	138.71	8.524	
16,300.00	10,454.67	17,249.67	11,435.76	103.41	104.77	146.06	5,812.09	184.40	1,182.54	1,041.91	140.64	8.408	
16,400.00	10,454.17	17,349.67	11,435.46	104.96	106.30	146.07	5,912.09	183.73	1,182.71	1,040.14	142.57	8.296	
16,500.00	10,453.67	17,449.67	11,435.16	106.51	107.83	146.07	6,012.09	183.06	1,182.87	1,038.37	144.50	8.186	
16,600.00	10,453.17	17,549.68	11,434.86	108.07	109.37	146.08	6,112.08	182.39	1,183.03	1,036.60	146.43	8.079	
16,700.00	10,452.67	17,649.68	11,434.56	109.62	110.91	146.08	6,212.08	181.72	1,183.20	1,034.83	148.37	7.975	
16,800.00	10,452.17	17,749.68	11,434.26	111.18	112.46	146.09	6,312.08	181.05	1,183.36	1,033.05	150.31	7.873	
16,900.00	10,451.68	17,849.68	11,433.96	112.74	114.00	146.10	6,412.08	180.38	1,183.52	1,031.28	152.25	7.774	
17,000.00	10,451.18	17,949.68	11,433.66	114.31	115.56	146.10	6,512.08	179.71	1,183.69	1,029.50	154.18	7.677	
17,100.00	10,450.68	18,049.68	11,433.36	115.88	117.11	146.11	6,612.08	179.04	1,183.85	1,027.72	156.13	7.583	
17,200.00	10,450.18	18,149.68	11,433.06	117.45	118.67	146.11	6,712.08	178.36	1,184.01	1,025.94	158.07	7.490	
17,300.00	10,449.69	18,249.68	11,432.76	119.02	120.23	146.12	6,812.07	177.69	1,184.17	1,024.15	160.02	7.400	
17,400.00	10,449.19	18,349.68	11,432.46	120.60	121.79	146.12	6,912.07	177.02	1,184.33	1,022.37	161.96	7.312	
17,500.00	10,448.69	18,449.69	11,432.16	122.17	123.35	146.13	7,012.07	176.35	1,184.50	1,020.59	163.91	7.226	
17,600.00	10,448.20	18,549.69	11,431.86	123.75	124.92	146.13	7,112.07	175.68	1,184.66	1,018.80	165.86	7.143	
17,700.00	10,447.70	18,649.69	11,431.55	125.33	126.49	146.14	7,212.07	175.00	1,184.82	1,017.01	167.81	7.061	
17,800.00	10,447.20	18,749.69	11,431.25	126.91	128.06	146.14	7,312.07	174.33	1,184.98	1,015.23	169.75	6.981	
17,900.00	10,446.71	18,849.69	11,430.95	128.50	129.63	146.15	7,412.07	173.66	1,185.14	1,013.44	171.71	6.902	
18,000.00	10,446.21	18,949.69	11,430.65	130.09	131.21	146.15	7,512.06	172.99	1,185.30	1,011.65	173.65	6.826	
18,100.00	10,445.71	19,049.69	11,430.35	131.67	132.78	146.16	7,612.06	172.31	1,185.46	1,009.86	175.61	6.751	
18,200.00	10,445.22	19,149.69	11,430.05	133.26	134.36	146.17	7,712.06	171.64	1,185.62	1,008.07	177.56	6.677	
18,300.00	10,444.72	19,249.70	11,429.75	134.86	135.94	146.17	7,812.06	170.97	1,185.78	1,006.28	179.51	6.606	
18,400.00	10,444.23	19,349.70	11,429.45	136.45	137.53	146.18	7,912.06	170.30	1,185.94	1,004.49	181.45	6.536	
18,500.00	10,443.73	19,449.70	11,429.15	138.04	139.11	146.18	8,012.06	169.62	1,186.10	1,002.70	183.41	6.467	
18,600.00	10,443.24	19,549.70	11,428.85	139.64	140.70	146.19	8,112.06	168.95	1,186.26	1,000.91	185.36	6.400	
18,700.00	10,442.74	19,649.70	11,428.55	141.24	142.28	146.19	8,212.05	168.28	1,186.42	999.12	187.31	6.334	
18,800.00	10,442.25	19,749.70	11,428.25	142.84	143.87	146.20	8,312.05	167.60	1,186.58	997.33	189.26	6.270	
18,900.00	10,441.75	19,849.70	11,427.95	144.44	145.47	146.20	8,412.05	166.93	1,186.74	995.54	191.21	6.207	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 704H - ORIGINAL WELLBORE - PROPOSAL #3

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	10,441.26	19,949.70	11,427.64	146.04	147.06	146.21	8,512.05	166.25	1,186.90	993.75	193.15	6.145	
19,100.00	10,440.76	20,049.71	11,427.34	147.64	148.65	146.21	8,612.05	165.58	1,187.06	991.96	195.10	6.084	
19,200.00	10,440.27	20,149.71	11,427.04	149.24	150.25	146.22	8,712.05	164.91	1,187.22	990.17	197.05	6.025	
19,300.00	10,439.77	20,249.71	11,426.74	150.85	151.84	146.22	8,812.04	164.23	1,187.38	988.38	199.00	5.967	
19,400.00	10,439.28	20,349.71	11,426.44	152.45	153.44	146.23	8,912.04	163.56	1,187.54	986.59	200.95	5.910	
19,500.00	10,438.78	20,449.71	11,426.14	154.06	155.04	146.24	9,012.04	162.88	1,187.69	984.80	202.89	5.854	
19,600.00	10,438.29	20,549.71	11,425.84	155.67	156.64	146.24	9,112.04	162.21	1,187.85	983.01	204.84	5.799	
19,700.00	10,437.80	20,649.71	11,425.54	157.28	158.24	146.25	9,212.04	161.53	1,188.01	981.23	206.78	5.745	
19,800.00	10,437.30	20,749.71	11,425.23	158.89	159.84	146.25	9,312.04	160.86	1,188.17	979.44	208.73	5.692	
19,900.00	10,436.81	20,849.72	11,424.93	160.50	161.45	146.26	9,412.04	160.18	1,188.32	977.65	210.67	5.641	
20,000.00	10,436.32	20,949.72	11,424.63	162.11	163.05	146.26	9,512.03	159.51	1,188.48	975.87	212.61	5.590	
20,100.00	10,435.82	21,049.72	11,424.33	163.72	164.66	146.27	9,612.03	158.83	1,188.64	974.08	214.56	5.540	
20,200.00	10,435.33	21,149.72	11,424.03	165.34	166.26	146.27	9,712.03	158.16	1,188.80	972.30	216.50	5.491	
20,300.00	10,434.84	21,249.72	11,423.73	166.95	167.87	146.28	9,812.03	157.48	1,188.95	970.52	218.44	5.443	
20,400.00	10,434.34	21,349.72	11,423.42	168.57	169.48	146.28	9,912.03	156.81	1,189.11	968.73	220.38	5.396	
20,500.00	10,433.85	21,449.72	11,423.12	170.18	171.09	146.29	10,012.03	156.13	1,189.27	966.95	222.31	5.350	
20,600.00	10,433.36	21,549.72	11,422.82	171.80	172.70	146.29	10,112.02	155.45	1,189.42	965.17	224.25	5.304	
20,700.00	10,432.86	21,649.73	11,422.52	173.42	174.31	146.30	10,212.02	154.78	1,189.58	963.39	226.18	5.259	
20,800.00	10,432.37	21,749.73	11,422.22	175.04	175.92	146.30	10,312.02	154.10	1,189.73	961.61	228.12	5.215	
20,875.64	10,432.00	21,820.90	11,422.00	176.26	177.07	146.31	10,383.19	153.62	1,189.86	960.36	229.50	5.185	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 705H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	10.00	10.00	0.00	0.01	88.54	32.10	1,258.95	1,259.36				
100.00	100.00	110.00	110.00	0.14	0.17	88.54	32.10	1,258.95	1,259.36	1,259.06	0.31	4,120.992	
200.00	200.00	210.00	210.00	0.49	0.53	88.54	32.10	1,258.95	1,259.36	1,258.34	1.02	1,231.603	
300.00	300.00	310.00	310.00	0.85	0.89	88.54	32.10	1,258.95	1,259.36	1,257.62	1.74	723.987	
400.00	400.00	410.00	410.00	1.21	1.25	88.54	32.10	1,258.95	1,259.36	1,256.91	2.46	512.681	
500.00	500.00	510.00	510.00	1.57	1.60	88.54	32.10	1,258.95	1,259.36	1,256.19	3.17	396.854	
600.00	600.00	610.00	610.00	1.93	1.96	88.54	32.10	1,258.95	1,259.36	1,255.47	3.89	323.718	
700.00	700.00	710.00	710.00	2.29	2.32	88.54	32.10	1,258.95	1,259.36	1,254.76	4.61	273.344	
800.00	800.00	810.00	810.00	2.64	2.68	88.54	32.10	1,258.95	1,259.36	1,254.04	5.32	236.536	
900.00	900.00	910.00	910.00	3.00	3.04	88.54	32.10	1,258.95	1,259.36	1,253.32	6.04	208.465	
1,000.00	1,000.00	1,010.00	1,010.00	3.36	3.40	88.54	32.10	1,258.95	1,259.36	1,252.61	6.76	186.349	
1,100.00	1,100.00	1,110.00	1,110.00	3.72	3.75	88.54	32.10	1,258.95	1,259.36	1,251.89	7.48	168.476	
1,200.00	1,200.00	1,210.00	1,210.00	4.08	4.11	88.54	32.10	1,258.95	1,259.36	1,251.17	8.19	153.732	
1,300.00	1,300.00	1,310.00	1,310.00	4.44	4.47	88.54	32.10	1,258.95	1,259.36	1,250.46	8.91	141.360	
1,400.00	1,400.00	1,410.00	1,410.00	4.80	4.83	88.54	32.10	1,258.95	1,259.36	1,249.74	9.63	130.831	
1,500.00	1,500.00	1,510.00	1,510.00	5.15	5.19	88.54	32.10	1,258.95	1,259.36	1,249.02	10.34	121.762	
1,600.00	1,600.00	1,610.00	1,610.00	5.51	5.55	88.54	32.10	1,258.95	1,259.36	1,248.30	11.06	113.869	
1,700.00	1,700.00	1,710.00	1,710.00	5.87	5.91	88.54	32.10	1,258.95	1,259.36	1,247.59	11.78	106.937	
1,800.00	1,800.00	1,810.00	1,810.00	6.23	6.26	88.54	32.10	1,258.95	1,259.36	1,246.87	12.49	100.801	
1,900.00	1,900.00	1,910.00	1,910.00	6.59	6.62	88.54	32.10	1,258.95	1,259.36	1,246.15	13.21	95.330	
2,000.00	2,000.00	2,010.00	2,010.00	6.95	6.98	88.54	32.10	1,258.95	1,259.36	1,245.44	13.93	90.423	
2,100.00	2,100.00	2,110.00	2,110.00	7.30	7.34	88.54	32.10	1,258.95	1,259.36	1,244.72	14.64	85.996	
2,200.00	2,200.00	2,215.08	2,215.08	7.66	7.71	88.54	32.08	1,258.93	1,259.34	1,243.97	15.38	81.897	
2,300.00	2,299.98	2,365.77	2,365.67	8.01	8.22	-155.38	28.93	1,255.36	1,258.51	1,242.30	16.22	77.603	
2,400.00	2,399.84	2,516.18	2,515.54	8.34	8.73	-155.18	20.56	1,245.89	1,256.84	1,239.83	17.01	73.875	
2,500.00	2,499.45	2,666.12	2,664.06	8.68	9.24	-154.84	7.04	1,230.61	1,254.35	1,236.56	17.80	70.488	
2,600.00	2,598.70	2,815.35	2,810.63	9.03	9.78	-154.39	-11.50	1,209.63	1,251.09	1,232.52	18.57	67.387	
2,700.00	2,697.47	2,910.02	2,903.24	9.38	10.13	-154.10	-24.51	1,194.91	1,249.47	1,230.22	19.25	64.896	
2,701.50	2,698.95	2,911.52	2,904.70	9.39	10.14	-154.10	-24.71	1,194.68	1,249.47	1,230.21	19.26	64.861	CC, ES
2,800.00	2,795.62	3,009.85	3,000.89	9.75	10.52	-153.84	-38.25	1,179.36	1,251.01	1,231.05	19.96	62.677	
2,900.00	2,893.44	3,109.70	3,098.55	10.13	10.91	-153.63	-52.00	1,163.80	1,254.13	1,233.45	20.68	60.655	
3,000.00	2,991.25	3,209.54	3,196.21	10.51	11.31	-153.42	-65.75	1,148.25	1,257.27	1,235.86	21.40	58.740	
3,100.00	3,089.07	3,309.38	3,293.87	10.91	11.71	-153.21	-79.50	1,132.70	1,260.42	1,238.28	22.14	56.927	
3,200.00	3,186.88	3,409.22	3,391.54	11.31	12.13	-153.00	-93.24	1,117.14	1,263.59	1,240.71	22.89	55.210	
3,300.00	3,284.70	3,509.07	3,489.20	11.72	12.55	-152.79	-106.99	1,101.59	1,266.78	1,243.14	23.64	53.583	
3,400.00	3,382.51	3,608.91	3,586.86	12.14	12.97	-152.58	-120.74	1,086.03	1,269.99	1,245.58	24.40	52.041	
3,500.00	3,480.33	3,708.75	3,684.52	12.56	13.40	-152.38	-134.49	1,070.48	1,273.21	1,248.04	25.17	50.579	
3,600.00	3,578.14	3,808.60	3,782.18	12.99	13.84	-152.17	-148.23	1,054.93	1,276.45	1,250.50	25.95	49.192	
3,700.00	3,675.96	3,908.44	3,879.84	13.42	14.27	-151.97	-161.98	1,039.37	1,279.70	1,252.97	26.73	47.876	
3,800.00	3,773.77	3,986.54	3,956.39	13.86	14.61	-151.83	-172.23	1,027.78	1,283.72	1,256.27	27.46	46.754	
3,900.00	3,871.59	4,061.81	4,030.53	14.30	14.93	-151.76	-180.81	1,018.07	1,289.65	1,261.48	28.16	45.791	
4,000.00	3,969.40	4,136.90	4,104.82	14.75	15.24	-151.76	-188.08	1,009.84	1,297.47	1,268.61	28.85	44.966	
4,100.00	4,067.22	4,200.00	4,167.44	15.19	15.49	-151.80	-193.19	1,004.06	1,307.26	1,277.77	29.49	44.333	
4,200.00	4,165.03	4,286.18	4,253.22	15.64	15.82	-151.92	-198.70	997.84	1,318.79	1,288.60	30.19	43.690	
4,300.00	4,262.84	4,360.18	4,327.04	16.10	16.09	-152.08	-202.06	994.03	1,332.27	1,301.45	30.82	43.227	
4,400.00	4,360.66	4,433.61	4,400.40	16.55	16.35	-152.30	-204.14	991.68	1,347.64	1,316.21	31.44	42.869	
4,500.00	4,458.47	4,506.39	4,473.17	17.01	16.60	-152.56	-204.98	990.73	1,364.90	1,332.86	32.03	42.611	
4,529.32	4,487.15	4,530.38	4,497.15	17.14	16.68	-152.66	-205.00	990.70	1,370.30	1,338.09	32.21	42.537	
4,600.00	4,556.46	4,599.69	4,566.46	17.46	16.90	-153.04	-205.00	990.70	1,382.67	1,349.96	32.71	42.274	
4,700.00	4,655.06	4,698.28	4,665.06	17.90	17.23	-153.48	-205.00	990.70	1,397.58	1,364.18	33.41	41.837	
4,800.00	4,754.18	4,797.40	4,764.18	18.31	17.56	-153.82	-205.00	990.70	1,409.43	1,375.33	34.10	41.331	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 705H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	4,896.92	4,863.70	18.69	17.88	-154.07	-205.00	990.70	1,418.18	1,383.39	34.80	40.758	
5,000.00	4,953.50	4,996.72	4,963.50	19.05	18.22	-154.23	-205.00	990.70	1,423.82	1,388.33	35.49	40.124	
5,100.00	5,053.46	5,096.68	5,063.46	19.39	18.55	-154.30	-205.00	990.70	1,426.31	1,390.14	36.17	39.432	
5,129.32	5,082.78	5,126.00	5,092.78	19.49	18.65	89.70	-205.00	990.70	1,426.45	1,390.08	36.37	39.220	
5,200.00	5,153.46	5,196.68	5,163.46	19.71	18.88	89.70	-205.00	990.70	1,426.45	1,389.60	36.85	38.711	
5,300.00	5,253.46	5,296.68	5,263.46	20.04	19.22	89.70	-205.00	990.70	1,426.45	1,388.92	37.53	38.011	
5,400.00	5,353.46	5,396.68	5,363.46	20.36	19.55	89.70	-205.00	990.70	1,426.45	1,388.24	38.21	37.335	
5,500.00	5,453.46	5,496.68	5,463.46	20.68	19.89	89.70	-205.00	990.70	1,426.45	1,387.56	38.89	36.681	
5,600.00	5,553.46	5,596.68	5,563.46	21.00	20.22	89.70	-205.00	990.70	1,426.45	1,386.88	39.57	36.049	
5,700.00	5,653.46	5,696.68	5,663.46	21.33	20.56	89.70	-205.00	990.70	1,426.45	1,386.19	40.25	35.437	
5,800.00	5,753.46	5,796.68	5,763.46	21.65	20.90	89.70	-205.00	990.70	1,426.45	1,385.51	40.94	34.844	
5,900.00	5,853.46	5,896.68	5,863.46	21.98	21.24	89.70	-205.00	990.70	1,426.45	1,384.82	41.62	34.271	
6,000.00	5,953.46	5,996.68	5,963.46	22.31	21.58	89.70	-205.00	990.70	1,426.45	1,384.14	42.31	33.714	
6,100.00	6,053.46	6,096.68	6,063.46	22.64	21.92	89.70	-205.00	990.70	1,426.45	1,383.45	43.00	33.175	
6,200.00	6,153.46	6,196.68	6,163.46	22.97	22.26	89.70	-205.00	990.70	1,426.45	1,382.76	43.69	32.652	
6,300.00	6,253.46	6,296.68	6,263.46	23.30	22.60	89.70	-205.00	990.70	1,426.45	1,382.07	44.38	32.145	
6,400.00	6,353.46	6,396.68	6,363.46	23.63	22.94	89.70	-205.00	990.70	1,426.45	1,381.38	45.07	31.652	
6,500.00	6,453.46	6,496.68	6,463.46	23.96	23.29	89.70	-205.00	990.70	1,426.45	1,380.69	45.76	31.174	
6,600.00	6,553.46	6,596.68	6,563.46	24.30	23.63	89.70	-205.00	990.70	1,426.45	1,380.00	46.45	30.710	
6,700.00	6,653.46	6,696.68	6,663.46	24.63	23.97	89.70	-205.00	990.70	1,426.45	1,379.30	47.14	30.259	
6,800.00	6,753.46	6,796.68	6,763.46	24.96	24.32	89.70	-205.00	990.70	1,426.45	1,378.61	47.84	29.820	
6,900.00	6,853.46	6,896.68	6,863.46	25.30	24.66	89.70	-205.00	990.70	1,426.45	1,377.92	48.53	29.394	
7,000.00	6,953.46	6,996.68	6,963.46	25.64	25.01	89.70	-205.00	990.70	1,426.45	1,377.22	49.22	28.979	
7,100.00	7,053.46	7,096.68	7,063.46	25.97	25.35	89.70	-205.00	990.70	1,426.45	1,376.53	49.92	28.575	
7,200.00	7,153.46	7,196.68	7,163.46	26.31	25.70	89.70	-205.00	990.70	1,426.45	1,375.83	50.62	28.182	
7,300.00	7,253.46	7,296.68	7,263.46	26.65	26.04	89.70	-205.00	990.70	1,426.45	1,375.13	51.31	27.800	
7,400.00	7,353.46	7,396.68	7,363.46	26.98	26.39	89.70	-205.00	990.70	1,426.45	1,374.44	52.01	27.427	
7,500.00	7,453.46	7,496.68	7,463.46	27.32	26.73	89.70	-205.00	990.70	1,426.45	1,373.74	52.71	27.064	
7,600.00	7,553.46	7,596.68	7,563.46	27.66	27.08	89.70	-205.00	990.70	1,426.45	1,373.04	53.40	26.710	
7,700.00	7,653.46	7,696.68	7,663.46	28.00	27.43	89.70	-205.00	990.70	1,426.45	1,372.34	54.10	26.365	
7,800.00	7,753.46	7,796.68	7,763.46	28.34	27.78	89.70	-205.00	990.70	1,426.45	1,371.64	54.80	26.029	
7,900.00	7,853.46	7,896.68	7,863.46	28.68	28.12	89.70	-205.00	990.70	1,426.45	1,370.94	55.50	25.701	
8,000.00	7,953.46	7,996.68	7,963.46	29.02	28.47	89.70	-205.00	990.70	1,426.45	1,370.24	56.20	25.381	
8,100.00	8,053.46	8,096.68	8,063.46	29.36	28.82	89.70	-205.00	990.70	1,426.45	1,369.54	56.90	25.069	
8,200.00	8,153.46	8,196.68	8,163.46	29.71	29.17	89.70	-205.00	990.70	1,426.45	1,368.84	57.60	24.764	
8,300.00	8,253.46	8,296.68	8,263.46	30.05	29.52	89.70	-205.00	990.70	1,426.45	1,368.14	58.30	24.466	
8,400.00	8,353.46	8,396.68	8,363.46	30.39	29.87	89.70	-205.00	990.70	1,426.45	1,367.44	59.01	24.175	
8,500.00	8,453.46	8,496.68	8,463.46	30.73	30.21	89.70	-205.00	990.70	1,426.45	1,366.74	59.71	23.891	
8,600.00	8,553.46	8,596.68	8,563.46	31.08	30.56	89.70	-205.00	990.70	1,426.45	1,366.04	60.41	23.613	
8,700.00	8,653.46	8,696.68	8,663.46	31.42	30.91	89.70	-205.00	990.70	1,426.45	1,365.33	61.11	23.341	
8,800.00	8,753.46	8,796.68	8,763.46	31.76	31.26	89.70	-205.00	990.70	1,426.45	1,364.63	61.82	23.076	
8,900.00	8,853.46	8,896.68	8,863.46	32.11	31.61	89.70	-205.00	990.70	1,426.45	1,363.93	62.52	22.816	
9,000.00	8,953.46	8,996.68	8,963.46	32.45	31.96	89.70	-205.00	990.70	1,426.45	1,363.22	63.22	22.562	
9,100.00	9,053.46	9,096.68	9,063.46	32.80	32.31	89.70	-205.00	990.70	1,426.45	1,362.52	63.93	22.314	
9,200.00	9,153.46	9,196.68	9,163.46	33.14	32.66	89.70	-205.00	990.70	1,426.45	1,361.82	64.63	22.071	
9,300.00	9,253.46	9,296.68	9,263.46	33.49	33.01	89.70	-205.00	990.70	1,426.45	1,361.11	65.33	21.833	
9,400.00	9,353.46	9,396.68	9,363.46	33.83	33.37	89.70	-205.00	990.70	1,426.45	1,360.41	66.04	21.600	
9,500.00	9,453.46	9,496.68	9,463.46	34.18	33.72	89.70	-205.00	990.70	1,426.45	1,359.70	66.74	21.372	
9,600.00	9,553.46	9,596.68	9,563.46	34.53	34.07	89.70	-205.00	990.70	1,426.45	1,359.00	67.45	21.148	
9,700.00	9,653.46	9,696.68	9,663.46	34.87	34.42	89.70	-205.00	990.70	1,426.45	1,358.29	68.15	20.929	
9,800.00	9,753.46	9,796.68	9,763.46	35.22	34.77	89.70	-205.00	990.70	1,426.45	1,357.58	68.86	20.715	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 705H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,853.46	9,896.68	9,863.46	35.57	35.12	89.70	-205.00	990.70	1,426.45	1,356.88	69.57	20.505	
9,955.59	9,909.05	9,952.27	9,919.05	35.76	35.32	89.70	-205.00	990.70	1,426.45	1,356.49	69.96	20.390	
10,000.00	9,953.41	9,996.64	9,963.41	35.91	35.47	90.15	-205.00	990.70	1,426.45	1,356.18	70.27	20.299	
10,050.00	10,003.03	10,046.25	10,013.03	36.08	35.65	90.39	-205.00	990.70	1,426.48	1,355.86	70.62	20.200	
10,100.00	10,051.93	10,095.16	10,061.93	36.23	35.82	90.78	-205.00	990.70	1,426.59	1,355.63	70.96	20.105	
10,150.00	10,099.75	10,142.97	10,109.75	36.38	35.99	91.31	-205.00	990.70	1,426.87	1,355.58	71.29	20.015	
10,200.00	10,146.11	10,189.33	10,156.11	36.52	36.15	91.95	-205.00	990.70	1,427.44	1,355.83	71.61	19.934	
10,250.00	10,190.67	10,233.89	10,200.67	36.64	36.31	92.66	-205.00	990.70	1,428.47	1,356.55	71.92	19.862	
10,300.00	10,233.09	10,276.31	10,243.09	36.75	36.46	93.39	-205.00	990.70	1,430.12	1,357.90	72.22	19.804	
10,350.00	10,273.04	10,316.26	10,283.04	36.85	36.60	94.10	-205.00	990.70	1,432.58	1,360.09	72.50	19.760	
10,400.00	10,310.22	10,353.44	10,320.22	36.94	36.73	94.75	-205.00	990.70	1,436.06	1,363.29	72.77	19.735	
10,450.00	10,344.35	10,387.57	10,354.35	37.01	36.85	95.27	-205.00	990.70	1,440.73	1,367.72	73.02	19.731	
10,500.00	10,375.16	10,418.38	10,385.16	37.07	36.96	95.63	-205.00	990.70	1,446.79	1,373.53	73.26	19.750	
10,550.00	10,402.43	10,445.65	10,412.43	37.11	37.05	95.77	-205.00	990.70	1,454.38	1,380.90	73.48	19.794	
10,600.00	10,425.94	10,469.16	10,435.94	37.15	37.14	95.66	-205.00	990.70	1,463.62	1,389.94	73.68	19.865	
10,650.00	10,445.52	10,488.74	10,455.52	37.19	37.21	95.26	-205.00	990.70	1,474.60	1,400.74	73.86	19.965	
10,700.00	10,461.01	10,504.23	10,471.01	37.23	37.26	94.53	-205.00	990.70	1,487.36	1,413.33	74.02	20.094	
10,750.00	10,472.31	10,515.53	10,482.31	37.30	37.30	93.46	-205.00	990.70	1,501.87	1,427.71	74.16	20.251	
10,800.00	10,479.31	10,522.54	10,489.31	37.41	37.33	92.02	-205.00	990.70	1,518.09	1,443.81	74.28	20.438	
10,850.00	10,481.98	10,525.20	10,491.98	37.55	37.33	90.22	-205.00	990.70	1,535.88	1,461.51	74.37	20.652	
10,858.49	10,482.00	10,525.22	10,492.00	37.57	37.33	89.88	-205.00	990.70	1,539.05	1,464.67	74.38	20.691	
10,900.00	10,481.79	10,525.01	10,491.79	37.70	37.33	89.87	-205.00	990.70	1,555.11	1,480.66	74.45	20.888	
11,000.00	10,481.28	10,524.51	10,491.28	38.06	37.33	89.85	-205.00	990.70	1,597.58	1,522.95	74.62	21.409	
11,100.00	10,480.78	10,524.00	10,490.78	38.49	37.33	89.83	-205.00	990.70	1,645.03	1,570.23	74.81	21.991	
11,200.00	10,480.27	10,523.50	10,490.27	38.98	37.33	89.81	-205.00	990.70	1,697.06	1,622.06	74.99	22.629	
11,300.00	10,479.77	10,522.99	10,489.77	39.53	37.33	89.79	-205.00	990.70	1,753.25	1,678.07	75.18	23.320	
11,400.00	10,479.26	12,587.34	11,668.17	40.14	44.05	131.77	917.59	876.90	1,769.88	1,698.36	71.52	24.748	
11,500.00	10,478.76	12,687.34	11,667.84	40.81	44.66	131.77	1,017.59	876.23	1,769.99	1,697.43	72.56	24.394	
11,600.00	10,478.25	12,787.34	11,667.51	41.54	45.32	131.78	1,117.58	875.56	1,770.10	1,696.42	73.68	24.024	
11,700.00	10,477.75	12,887.34	11,667.18	42.31	46.04	131.78	1,217.58	874.89	1,770.22	1,695.34	74.88	23.640	
11,800.00	10,477.24	12,987.34	11,666.85	43.14	46.79	131.78	1,317.58	874.22	1,770.33	1,694.18	76.16	23.246	
11,900.00	10,476.74	13,087.34	11,666.52	44.01	47.60	131.79	1,417.57	873.56	1,770.45	1,692.95	77.50	22.844	
12,000.00	10,476.23	13,187.34	11,666.20	44.92	48.44	131.79	1,517.57	872.89	1,770.56	1,691.65	78.91	22.438	
12,100.00	10,475.73	13,287.34	11,665.87	45.88	49.33	131.80	1,617.57	872.22	1,770.68	1,690.29	80.38	22.028	
12,200.00	10,475.22	13,387.34	11,665.54	46.87	50.25	131.80	1,717.57	871.55	1,770.79	1,688.88	81.91	21.618	
12,300.00	10,474.72	13,487.34	11,665.21	47.90	51.22	131.81	1,817.56	870.89	1,770.90	1,687.41	83.50	21.209	
12,400.00	10,474.22	13,587.34	11,664.88	48.97	52.21	131.81	1,917.56	870.22	1,771.02	1,685.89	85.13	20.803	
12,500.00	10,473.71	13,687.34	11,664.55	50.06	53.24	131.81	2,017.56	869.55	1,771.13	1,684.32	86.82	20.401	
12,600.00	10,473.21	13,787.34	11,664.22	51.19	54.30	131.82	2,117.55	868.88	1,771.25	1,682.70	88.55	20.003	
12,700.00	10,472.70	13,887.34	11,663.89	52.34	55.39	131.82	2,217.55	868.21	1,771.36	1,681.03	90.33	19.611	
12,800.00	10,472.20	13,987.34	11,663.56	53.52	56.51	131.83	2,317.55	867.55	1,771.48	1,679.33	92.14	19.225	
12,900.00	10,471.70	14,087.34	11,663.23	54.73	57.65	131.83	2,417.55	866.88	1,771.59	1,677.59	94.00	18.848	
13,000.00	10,471.19	14,187.34	11,662.90	55.96	58.82	131.84	2,517.54	866.21	1,771.70	1,675.82	95.89	18.477	
13,100.00	10,470.69	14,287.34	11,662.57	57.21	60.01	131.84	2,617.54	865.54	1,771.82	1,674.01	97.81	18.115	
13,200.00	10,470.19	14,387.34	11,662.25	58.48	61.22	131.84	2,717.54	864.88	1,771.93	1,672.17	99.76	17.761	
13,300.00	10,469.68	14,487.34	11,661.92	59.77	62.46	131.85	2,817.53	864.21	1,772.05	1,670.30	101.75	17.416	
13,400.00	10,469.18	14,587.34	11,661.59	61.07	63.71	131.85	2,917.53	863.54	1,772.16	1,668.40	103.76	17.080	
13,500.00	10,468.68	14,687.34	11,661.26	62.40	64.98	131.86	3,017.53	862.87	1,772.27	1,666.48	105.80	16.752	
13,600.00	10,468.18	14,787.34	11,660.93	63.73	66.26	131.86	3,117.53	862.20	1,772.39	1,664.53	107.86	16.432	
13,700.00	10,467.67	14,887.34	11,660.60	65.09	67.57	131.87	3,217.52	861.54	1,772.50	1,662.56	109.94	16.122	
13,800.00	10,467.17	14,987.34	11,660.27	66.46	68.89	131.87	3,317.52	860.87	1,772.62	1,660.56	112.05	15.820	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 705H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,466.67	15,087.34	11,659.94	67.83	70.22	131.87	3,417.52	860.20	1,772.73	1,658.55	114.18	15.526	
14,000.00	10,466.17	15,187.34	11,659.61	69.23	71.56	131.88	3,517.51	859.53	1,772.84	1,656.52	116.32	15.241	
14,100.00	10,465.67	15,287.34	11,659.28	70.63	72.92	131.88	3,617.51	858.87	1,772.96	1,654.47	118.49	14.963	
14,200.00	10,465.17	15,387.34	11,658.95	72.04	74.29	131.89	3,717.51	858.20	1,773.07	1,652.40	120.67	14.694	
14,300.00	10,464.66	15,487.34	11,658.62	73.47	75.68	131.89	3,817.50	857.53	1,773.19	1,650.32	122.86	14.432	
14,400.00	10,464.16	15,587.34	11,658.29	74.90	77.07	131.89	3,917.50	856.86	1,773.30	1,648.22	125.08	14.178	
14,500.00	10,463.66	15,687.34	11,657.97	76.34	78.47	131.90	4,017.50	856.19	1,773.41	1,646.11	127.30	13.931	
14,600.00	10,463.16	15,787.34	11,657.64	77.80	79.88	131.90	4,117.50	855.53	1,773.53	1,643.99	129.54	13.691	
14,700.00	10,462.66	15,887.34	11,657.31	79.26	81.31	131.91	4,217.49	854.86	1,773.64	1,641.85	131.79	13.458	
14,800.00	10,462.16	15,987.34	11,656.98	80.72	82.74	131.91	4,317.49	854.19	1,773.75	1,639.70	134.05	13.232	
14,900.00	10,461.66	16,087.34	11,656.65	82.20	84.18	131.92	4,417.49	853.52	1,773.87	1,637.54	136.33	13.012	
15,000.00	10,461.16	16,187.34	11,656.32	83.68	85.62	131.92	4,517.48	852.86	1,773.98	1,635.37	138.61	12.799	
15,100.00	10,460.66	16,287.34	11,655.99	85.16	87.08	131.92	4,617.48	852.19	1,774.10	1,633.19	140.90	12.591	
15,200.00	10,460.16	16,387.34	11,655.66	86.66	88.54	131.93	4,717.48	851.52	1,774.21	1,631.00	143.21	12.389	
15,300.00	10,459.66	16,487.34	11,655.33	88.16	90.01	131.93	4,817.48	850.85	1,774.32	1,628.81	145.52	12.193	
15,400.00	10,459.16	16,587.34	11,655.00	89.66	91.48	131.94	4,917.47	850.19	1,774.44	1,626.60	147.83	12.003	
15,500.00	10,458.66	16,687.34	11,654.67	91.17	92.96	131.94	5,017.47	849.52	1,774.55	1,624.39	150.16	11.817	
15,600.00	10,458.16	16,787.34	11,654.34	92.69	94.45	131.94	5,117.47	848.85	1,774.66	1,622.17	152.50	11.637	
15,700.00	10,457.66	16,887.34	11,654.02	94.21	95.94	131.95	5,217.46	848.18	1,774.78	1,619.94	154.84	11.462	
15,800.00	10,457.16	16,987.34	11,653.69	95.73	97.44	131.95	5,317.46	847.51	1,774.89	1,617.71	157.19	11.292	
15,900.00	10,456.66	17,087.34	11,653.36	97.26	98.94	131.96	5,417.46	846.85	1,775.00	1,615.47	159.54	11.126	
16,000.00	10,456.16	17,187.34	11,653.03	98.79	100.45	131.96	5,517.46	846.18	1,775.12	1,613.22	161.90	10.965	
16,100.00	10,455.66	17,287.34	11,652.70	100.33	101.96	131.96	5,617.45	845.51	1,775.23	1,610.97	164.26	10.807	
16,200.00	10,455.16	17,387.34	11,652.37	101.87	103.48	131.97	5,717.45	844.84	1,775.35	1,608.71	166.63	10.654	
16,300.00	10,454.67	17,487.34	11,652.04	103.41	105.00	131.97	5,817.45	844.18	1,775.46	1,606.45	169.01	10.505	
16,400.00	10,454.17	17,587.34	11,651.71	104.96	106.52	131.98	5,917.44	843.51	1,775.57	1,604.19	171.38	10.360	
16,500.00	10,453.67	17,687.34	11,651.38	106.51	108.05	131.98	6,017.44	842.84	1,775.69	1,601.92	173.77	10.219	
16,600.00	10,453.17	17,787.34	11,651.05	108.07	109.59	131.98	6,117.44	842.17	1,775.80	1,599.65	176.15	10.081	
16,700.00	10,452.67	17,887.34	11,650.72	109.62	111.12	131.99	6,217.43	841.50	1,775.91	1,597.37	178.55	9.947	
16,800.00	10,452.17	17,987.34	11,650.39	111.18	112.66	131.99	6,317.43	840.84	1,776.03	1,595.09	180.94	9.816	
16,900.00	10,451.68	18,087.34	11,650.07	112.74	114.20	132.00	6,417.43	840.17	1,776.14	1,592.81	183.33	9.688	
17,000.00	10,451.18	18,187.34	11,649.74	114.31	115.75	132.00	6,517.43	839.50	1,776.25	1,590.52	185.73	9.563	
17,100.00	10,450.68	18,287.34	11,649.41	115.88	117.30	132.00	6,617.42	838.83	1,776.37	1,588.23	188.14	9.442	
17,200.00	10,450.18	18,387.34	11,649.08	117.45	118.85	132.01	6,717.42	838.17	1,776.48	1,585.93	190.55	9.323	
17,300.00	10,449.69	18,487.34	11,648.75	119.02	120.40	132.01	6,817.42	837.50	1,776.59	1,583.64	192.95	9.207	
17,400.00	10,449.19	18,587.34	11,648.42	120.60	121.96	132.02	6,917.41	836.83	1,776.71	1,581.34	195.37	9.094	
17,500.00	10,448.69	18,687.34	11,648.09	122.17	123.52	132.02	7,017.41	836.16	1,776.82	1,579.04	197.78	8.984	
17,600.00	10,448.20	18,787.34	11,647.76	123.75	125.08	132.02	7,117.41	835.49	1,776.93	1,576.74	200.19	8.876	
17,700.00	10,447.70	18,887.34	11,647.43	125.33	126.65	132.03	7,217.41	834.83	1,777.05	1,574.43	202.61	8.771	
17,800.00	10,447.20	18,987.34	11,647.10	126.91	128.21	132.03	7,317.40	834.16	1,777.16	1,572.13	205.03	8.668	
17,900.00	10,446.71	19,087.33	11,646.77	128.50	129.78	132.04	7,417.40	833.49	1,777.27	1,569.83	207.45	8.567	
18,000.00	10,446.21	19,187.33	11,646.44	130.09	131.36	132.04	7,517.40	832.82	1,777.39	1,567.52	209.87	8.469	
18,100.00	10,445.71	19,287.33	11,646.12	131.67	132.93	132.04	7,617.39	832.16	1,777.50	1,565.20	212.29	8.373	
18,200.00	10,445.22	19,387.33	11,645.79	133.26	134.50	132.05	7,717.39	831.49	1,777.61	1,562.89	214.72	8.279	
18,300.00	10,444.72	19,487.33	11,645.46	134.86	136.08	132.05	7,817.39	830.82	1,777.73	1,560.58	217.14	8.187	
18,400.00	10,444.23	19,587.33	11,645.13	136.45	137.66	132.06	7,917.39	830.15	1,777.84	1,558.27	219.57	8.097	
18,500.00	10,443.73	19,687.33	11,644.80	138.04	139.24	132.06	8,017.38	829.48	1,777.95	1,555.95	222.00	8.009	
18,600.00	10,443.24	19,787.33	11,644.47	139.64	140.82	132.06	8,117.38	828.82	1,778.06	1,553.64	224.43	7.923	
18,700.00	10,442.74	19,887.33	11,644.14	141.24	142.41	132.07	8,217.38	828.15	1,778.18	1,551.32	226.86	7.838	
18,800.00	10,442.25	19,987.33	11,643.81	142.84	143.99	132.07	8,317.37	827.48	1,778.29	1,549.01	229.29	7.756	
18,900.00	10,441.75	20,087.33	11,643.48	144.44	145.58	132.08	8,417.37	826.81	1,778.40	1,546.69	231.72	7.675	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 705H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	10,441.26	20,187.33	11,643.15	146.04	147.17	132.08	8,517.37	826.15	1,778.52	1,544.37	234.15	7.596	
19,100.00	10,440.76	20,287.33	11,642.82	147.64	148.76	132.08	8,617.37	825.48	1,778.63	1,542.05	236.58	7.518	
19,200.00	10,440.27	20,387.33	11,642.49	149.24	150.35	132.09	8,717.36	824.81	1,778.74	1,539.73	239.01	7.442	
19,300.00	10,439.77	20,487.33	11,642.16	150.85	151.95	132.09	8,817.36	824.14	1,778.86	1,537.41	241.45	7.368	
19,400.00	10,439.28	20,587.33	11,641.84	152.45	153.54	132.10	8,917.36	823.48	1,778.97	1,535.09	243.88	7.295	
19,500.00	10,438.78	20,687.33	11,641.51	154.06	155.14	132.10	9,017.35	822.81	1,779.08	1,532.77	246.31	7.223	
19,600.00	10,438.29	20,787.33	11,641.18	155.67	156.73	132.10	9,117.35	822.14	1,779.19	1,530.45	248.74	7.153	
19,700.00	10,437.80	20,887.33	11,640.85	157.28	158.33	132.11	9,217.35	821.47	1,779.31	1,528.13	251.17	7.084	
19,800.00	10,437.30	20,987.33	11,640.52	158.89	159.93	132.11	9,317.34	820.80	1,779.42	1,525.81	253.61	7.016	
19,900.00	10,436.81	21,087.33	11,640.19	160.50	161.53	132.11	9,417.34	820.14	1,779.53	1,523.49	256.04	6.950	
20,000.00	10,436.32	21,187.33	11,639.86	162.11	163.14	132.12	9,517.34	819.47	1,779.65	1,521.17	258.47	6.885	
20,100.00	10,435.82	21,287.33	11,639.53	163.72	164.74	132.12	9,617.34	818.80	1,779.76	1,518.85	260.91	6.821	
20,200.00	10,435.33	21,387.33	11,639.20	165.34	166.34	132.13	9,717.33	818.13	1,779.87	1,516.53	263.34	6.759	
20,300.00	10,434.84	21,487.33	11,638.87	166.95	167.95	132.13	9,817.33	817.47	1,779.98	1,514.22	265.77	6.697	
20,400.00	10,434.34	21,587.33	11,638.54	168.57	169.55	132.13	9,917.33	816.80	1,780.10	1,511.90	268.20	6.637	
20,500.00	10,433.85	21,687.33	11,638.21	170.18	171.16	132.14	10,017.32	816.13	1,780.21	1,509.58	270.63	6.578	
20,600.00	10,433.36	21,787.33	11,637.89	171.80	172.77	132.14	10,117.32	815.46	1,780.32	1,507.26	273.06	6.520	
20,700.00	10,432.86	21,887.33	11,637.56	173.42	174.38	132.15	10,217.32	814.79	1,780.44	1,504.94	275.49	6.463	
20,800.00	10,432.37	21,987.33	11,637.23	175.04	175.99	132.15	10,317.32	814.13	1,780.55	1,502.62	277.92	6.407	
20,875.64	10,432.00	22,056.21	11,637.00	176.26	177.10	132.15	10,386.19	813.67	1,780.65	1,501.03	279.62	6.368	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 706H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference 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
0.00	0.00	10.00	10.00	0.00	0.01	88.58	32.40	1,308.96	1,309.36				
100.00	100.00	110.00	110.00	0.14	0.17	88.58	32.40	1,308.96	1,309.36	1,309.05	0.31	4,284.586	
200.00	200.00	210.00	210.00	0.49	0.53	88.58	32.40	1,308.96	1,309.36	1,308.34	1.02	1,280.495	
300.00	300.00	310.00	310.00	0.85	0.89	88.58	32.40	1,308.96	1,309.36	1,307.62	1.74	752.728	
400.00	400.00	410.00	410.00	1.21	1.25	88.58	32.40	1,308.96	1,309.36	1,306.90	2.46	533.034	
500.00	500.00	510.00	510.00	1.57	1.60	88.58	32.40	1,308.96	1,309.36	1,306.18	3.17	412.608	
600.00	600.00	610.00	610.00	1.93	1.96	88.58	32.40	1,308.96	1,309.36	1,305.47	3.89	336.569	
700.00	700.00	710.00	710.00	2.29	2.32	88.58	32.40	1,308.96	1,309.36	1,304.75	4.61	284.195	
800.00	800.00	810.00	810.00	2.64	2.68	88.58	32.40	1,308.96	1,309.36	1,304.03	5.32	245.926	
900.00	900.00	910.00	910.00	3.00	3.04	88.58	32.40	1,308.96	1,309.36	1,303.32	6.04	216.740	
1,000.00	1,000.00	1,010.00	1,010.00	3.36	3.40	88.58	32.40	1,308.96	1,309.36	1,302.60	6.76	193.747	
1,100.00	1,100.00	1,110.00	1,110.00	3.72	3.75	88.58	32.40	1,308.96	1,309.36	1,301.88	7.48	175.164	
1,200.00	1,200.00	1,210.00	1,210.00	4.08	4.11	88.58	32.40	1,308.96	1,309.36	1,301.17	8.19	159.834	
1,300.00	1,300.00	1,310.00	1,310.00	4.44	4.47	88.58	32.40	1,308.96	1,309.36	1,300.45	8.91	146.972	
1,400.00	1,400.00	1,410.00	1,410.00	4.80	4.83	88.58	32.40	1,308.96	1,309.36	1,299.73	9.63	136.025	
1,500.00	1,500.00	1,510.00	1,510.00	5.15	5.19	88.58	32.40	1,308.96	1,309.36	1,299.02	10.34	126.596	
1,600.00	1,600.00	1,610.00	1,610.00	5.51	5.55	88.58	32.40	1,308.96	1,309.36	1,298.30	11.06	118.390	
1,700.00	1,700.00	1,710.00	1,710.00	5.87	5.91	88.58	32.40	1,308.96	1,309.36	1,297.58	11.78	111.182	
1,800.00	1,800.00	1,810.00	1,810.00	6.23	6.26	88.58	32.40	1,308.96	1,309.36	1,296.86	12.49	104.802	
1,900.00	1,900.00	1,910.00	1,910.00	6.59	6.62	88.58	32.40	1,308.96	1,309.36	1,296.15	13.21	99.114	
1,912.96	1,912.96	1,922.96	1,922.96	6.63	6.67	88.58	32.40	1,308.96	1,309.36	1,296.05	13.30	98.422	CC
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	88.58	32.40	1,308.96	1,309.40	1,295.50	13.89	94.260	ES
2,100.00	2,100.00	2,083.54	2,083.53	7.30	7.23	88.62	31.54	1,309.82	1,310.47	1,295.93	14.53	90.165	
2,200.00	2,200.00	2,159.37	2,159.28	7.66	7.49	88.72	29.28	1,312.10	1,313.41	1,298.27	15.14	86.764	
2,300.00	2,299.98	2,234.92	2,234.65	8.01	7.74	-155.09	25.62	1,315.79	1,319.77	1,304.05	15.72	83.947	
2,400.00	2,399.84	2,300.00	2,299.45	8.34	7.95	-154.87	21.35	1,320.10	1,331.18	1,314.93	16.25	81.930	
2,500.00	2,499.45	2,384.17	2,383.02	8.68	8.24	-154.55	14.29	1,327.21	1,347.43	1,330.58	16.85	79.959	
2,600.00	2,598.70	2,457.36	2,455.42	9.03	8.50	-154.20	6.74	1,334.82	1,368.62	1,351.21	17.41	78.617	
2,700.00	2,697.47	2,529.30	2,526.29	9.38	8.75	-153.79	-1.94	1,343.57	1,394.61	1,376.65	17.96	77.656	
2,800.00	2,795.62	2,600.00	2,595.62	9.75	9.01	-153.34	-11.69	1,353.39	1,425.31	1,406.81	18.50	77.035	
2,900.00	2,893.44	2,693.93	2,687.50	10.13	9.36	-153.13	-25.45	1,367.26	1,458.33	1,439.16	19.17	76.076	
3,000.00	2,991.25	2,788.18	2,779.69	10.51	9.73	-152.93	-39.25	1,381.17	1,491.38	1,471.53	19.85	75.146	
3,100.00	3,089.07	2,882.44	2,871.89	10.91	10.10	-152.73	-53.06	1,395.08	1,524.44	1,503.90	20.53	74.241	
3,200.00	3,186.88	2,976.69	2,964.08	11.31	10.48	-152.55	-66.86	1,408.99	1,557.51	1,536.28	21.23	73.365	
3,300.00	3,284.70	3,070.94	3,056.28	11.72	10.87	-152.37	-80.66	1,422.90	1,590.60	1,568.66	21.93	72.518	
3,400.00	3,382.51	3,165.20	3,148.47	12.14	11.26	-152.20	-94.47	1,436.81	1,623.70	1,601.05	22.65	71.701	
3,500.00	3,480.33	3,259.45	3,240.66	12.56	11.66	-152.03	-108.27	1,450.72	1,656.81	1,633.45	23.36	70.915	
3,600.00	3,578.14	3,353.70	3,332.86	12.99	12.06	-151.88	-122.07	1,464.63	1,689.94	1,665.85	24.09	70.157	
3,700.00	3,675.96	3,447.96	3,425.05	13.42	12.47	-151.73	-135.88	1,478.54	1,723.08	1,698.26	24.82	69.429	
3,800.00	3,773.77	3,542.21	3,517.24	13.86	12.88	-151.58	-149.68	1,492.45	1,756.22	1,730.67	25.55	68.730	
3,900.00	3,871.59	3,672.80	3,645.20	14.30	13.45	-151.41	-168.04	1,510.95	1,788.94	1,762.44	26.50	67.503	
4,000.00	3,969.40	3,850.16	3,820.52	14.75	14.18	-151.39	-186.79	1,529.85	1,818.03	1,790.35	27.68	65.691	
4,100.00	4,067.22	4,031.83	4,001.45	15.19	14.87	-151.62	-198.05	1,541.19	1,842.71	1,813.91	28.79	63.995	
4,200.00	4,165.03	4,205.49	4,175.03	15.64	15.46	-152.06	-201.25	1,544.42	1,862.90	1,833.09	29.80	62.507	
4,300.00	4,262.84	4,303.30	4,272.84	16.10	15.78	-152.36	-201.25	1,544.42	1,881.38	1,850.87	30.51	61.658	
4,400.00	4,360.66	4,401.12	4,370.66	16.55	16.10	-152.65	-201.25	1,544.42	1,899.91	1,868.68	31.22	60.846	
4,500.00	4,458.47	4,498.93	4,468.47	17.01	16.43	-152.93	-201.25	1,544.42	1,918.48	1,886.54	31.94	60.069	
4,529.32	4,487.15	4,527.61	4,497.15	17.14	16.52	-153.02	-201.25	1,544.42	1,923.94	1,891.79	32.15	59.847	
4,600.00	4,556.46	4,596.92	4,566.46	17.46	16.75	-153.31	-201.25	1,544.42	1,936.34	1,903.68	32.65	59.304	
4,700.00	4,655.06	4,695.52	4,665.06	17.90	17.08	-153.67	-201.25	1,544.42	1,951.28	1,917.92	33.36	58.490	
4,800.00	4,754.18	4,794.64	4,764.18	18.31	17.41	-153.94	-201.25	1,544.42	1,963.15	1,929.08	34.07	57.627	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 706H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,853.70	4,894.16	4,863.70	18.69	17.74	-154.14	-201.25	1,544.42	1,971.91	1,937.14	34.77	56.716	
5,000.00	4,953.50	4,993.96	4,963.50	19.05	18.08	-154.27	-201.25	1,544.42	1,977.54	1,942.08	35.46	55.763	
5,100.00	5,053.46	5,093.92	5,063.46	19.39	18.41	-154.33	-201.25	1,544.42	1,980.03	1,943.88	36.15	54.770	
5,129.32	5,082.78	5,123.23	5,092.78	19.49	18.51	89.68	-201.25	1,544.42	1,980.17	1,943.82	36.35	54.473	
5,200.00	5,153.46	5,193.92	5,163.46	19.71	18.75	89.68	-201.25	1,544.42	1,980.17	1,943.34	36.83	53.764	
5,300.00	5,253.46	5,293.92	5,263.46	20.04	19.09	89.68	-201.25	1,544.42	1,980.17	1,942.66	37.51	52.790	
5,400.00	5,353.46	5,393.92	5,363.46	20.36	19.43	89.68	-201.25	1,544.42	1,980.17	1,941.98	38.19	51.849	
5,500.00	5,453.46	5,493.92	5,463.46	20.68	19.77	89.68	-201.25	1,544.42	1,980.17	1,941.30	38.87	50.939	
5,600.00	5,553.46	5,593.92	5,563.46	21.00	20.11	89.68	-201.25	1,544.42	1,980.17	1,940.61	39.56	50.059	
5,700.00	5,653.46	5,693.92	5,663.46	21.33	20.45	89.68	-201.25	1,544.42	1,980.17	1,939.93	40.24	49.207	
5,800.00	5,753.46	5,793.92	5,763.46	21.65	20.79	89.68	-201.25	1,544.42	1,980.17	1,939.24	40.93	48.383	
5,900.00	5,853.46	5,893.92	5,863.46	21.98	21.13	89.68	-201.25	1,544.42	1,980.17	1,938.56	41.61	47.585	
6,000.00	5,953.46	5,993.92	5,963.46	22.31	21.47	89.68	-201.25	1,544.42	1,980.17	1,937.87	42.30	46.811	
6,100.00	6,053.46	6,093.92	6,063.46	22.64	21.81	89.68	-201.25	1,544.42	1,980.17	1,937.18	42.99	46.061	
6,200.00	6,153.46	6,193.92	6,163.46	22.97	22.16	89.68	-201.25	1,544.42	1,980.17	1,936.49	43.68	45.334	
6,300.00	6,253.46	6,293.92	6,263.46	23.30	22.50	89.68	-201.25	1,544.42	1,980.17	1,935.80	44.37	44.629	
6,400.00	6,353.46	6,393.92	6,363.46	23.63	22.85	89.68	-201.25	1,544.42	1,980.17	1,935.11	45.06	43.944	
6,500.00	6,453.46	6,493.92	6,463.46	23.96	23.19	89.68	-201.25	1,544.42	1,980.17	1,934.42	45.75	43.279	
6,600.00	6,553.46	6,593.92	6,563.46	24.30	23.53	89.68	-201.25	1,544.42	1,980.17	1,933.72	46.45	42.634	
6,700.00	6,653.46	6,693.92	6,663.46	24.63	23.88	89.68	-201.25	1,544.42	1,980.17	1,933.03	47.14	42.006	
6,800.00	6,753.46	6,793.92	6,763.46	24.96	24.23	89.68	-201.25	1,544.42	1,980.17	1,932.34	47.83	41.397	
6,900.00	6,853.46	6,893.92	6,863.46	25.30	24.57	89.68	-201.25	1,544.42	1,980.17	1,931.64	48.53	40.804	
7,000.00	6,953.46	6,993.92	6,963.46	25.64	24.92	89.68	-201.25	1,544.42	1,980.17	1,930.95	49.22	40.228	
7,100.00	7,053.46	7,093.92	7,063.46	25.97	25.27	89.68	-201.25	1,544.42	1,980.17	1,930.25	49.92	39.667	
7,200.00	7,153.46	7,193.92	7,163.46	26.31	25.61	89.68	-201.25	1,544.42	1,980.17	1,929.55	50.62	39.121	
7,300.00	7,253.46	7,293.92	7,263.46	26.65	25.96	89.68	-201.25	1,544.42	1,980.17	1,928.86	51.31	38.589	
7,400.00	7,353.46	7,393.92	7,363.46	26.98	26.31	89.68	-201.25	1,544.42	1,980.17	1,928.16	52.01	38.071	
7,500.00	7,453.46	7,493.92	7,463.46	27.32	26.66	89.68	-201.25	1,544.42	1,980.17	1,927.46	52.71	37.567	
7,600.00	7,553.46	7,593.92	7,563.46	27.66	27.00	89.68	-201.25	1,544.42	1,980.17	1,926.76	53.41	37.075	
7,700.00	7,653.46	7,693.92	7,663.46	28.00	27.35	89.68	-201.25	1,544.42	1,980.17	1,926.06	54.11	36.596	
7,800.00	7,753.46	7,793.92	7,763.46	28.34	27.70	89.68	-201.25	1,544.42	1,980.17	1,925.36	54.81	36.129	
7,900.00	7,853.46	7,893.92	7,863.46	28.68	28.05	89.68	-201.25	1,544.42	1,980.17	1,924.66	55.51	35.673	
8,000.00	7,953.46	7,993.92	7,963.46	29.02	28.40	89.68	-201.25	1,544.42	1,980.17	1,923.96	56.21	35.229	
8,100.00	8,053.46	8,093.92	8,063.46	29.36	28.75	89.68	-201.25	1,544.42	1,980.17	1,923.26	56.91	34.795	
8,200.00	8,153.46	8,193.92	8,163.46	29.71	29.10	89.68	-201.25	1,544.42	1,980.17	1,922.56	57.61	34.371	
8,300.00	8,253.46	8,293.92	8,263.46	30.05	29.45	89.68	-201.25	1,544.42	1,980.17	1,921.86	58.31	33.958	
8,400.00	8,353.46	8,393.92	8,363.46	30.39	29.80	89.68	-201.25	1,544.42	1,980.17	1,921.15	59.02	33.554	
8,500.00	8,453.46	8,493.92	8,463.46	30.73	30.15	89.68	-201.25	1,544.42	1,980.17	1,920.45	59.72	33.159	
8,600.00	8,553.46	8,593.92	8,563.46	31.08	30.50	89.68	-201.25	1,544.42	1,980.17	1,919.75	60.42	32.773	
8,700.00	8,653.46	8,693.92	8,663.46	31.42	30.85	89.68	-201.25	1,544.42	1,980.17	1,919.05	61.12	32.396	
8,800.00	8,753.46	8,793.92	8,763.46	31.76	31.20	89.68	-201.25	1,544.42	1,980.17	1,918.34	61.83	32.028	
8,900.00	8,853.46	8,893.92	8,863.46	32.11	31.55	89.68	-201.25	1,544.42	1,980.17	1,917.64	62.53	31.667	
9,000.00	8,953.46	8,993.92	8,963.46	32.45	31.90	89.68	-201.25	1,544.42	1,980.17	1,916.93	63.23	31.314	
9,100.00	9,053.46	9,093.92	9,063.46	32.80	32.26	89.68	-201.25	1,544.42	1,980.17	1,916.23	63.94	30.970	
9,200.00	9,153.46	9,193.92	9,163.46	33.14	32.61	89.68	-201.25	1,544.42	1,980.17	1,915.53	64.64	30.632	
9,300.00	9,253.46	9,293.92	9,263.46	33.49	32.96	89.68	-201.25	1,544.42	1,980.17	1,914.82	65.35	30.302	
9,400.00	9,353.46	9,393.92	9,363.46	33.83	33.31	89.68	-201.25	1,544.42	1,980.17	1,914.12	66.05	29.978	
9,500.00	9,453.46	9,493.92	9,463.46	34.18	33.66	89.68	-201.25	1,544.42	1,980.17	1,913.41	66.76	29.661	
9,600.00	9,553.46	9,593.92	9,563.46	34.53	34.02	89.68	-201.25	1,544.42	1,980.17	1,912.70	67.47	29.351	
9,700.00	9,653.46	9,693.92	9,663.46	34.87	34.37	89.68	-201.25	1,544.42	1,980.17	1,912.00	68.17	29.047	
9,800.00	9,753.46	9,793.92	9,763.46	35.22	34.72	89.68	-201.25	1,544.42	1,980.17	1,911.29	68.88	28.749	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 706H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,853.46	9,893.92	9,863.46	35.57	35.07	89.68	-201.25	1,544.42	1,980.17	1,910.59	69.58	28.458	
9,955.59	9,909.05	9,949.51	9,919.05	35.76	35.27	89.68	-201.25	1,544.42	1,980.17	1,910.19	69.98	28.298	
10,000.00	9,953.41	9,993.87	9,963.41	35.91	35.43	90.11	-201.25	1,544.42	1,980.17	1,909.89	70.29	28.173	
10,050.00	10,003.03	10,043.49	10,013.03	36.08	35.60	90.28	-201.25	1,544.42	1,980.19	1,909.56	70.63	28.036	
10,100.00	10,051.93	10,092.39	10,061.93	36.23	35.77	90.56	-201.25	1,544.42	1,980.27	1,909.31	70.96	27.906	
10,150.00	10,099.75	10,140.21	10,109.75	36.38	35.94	90.94	-201.25	1,544.42	1,980.47	1,909.19	71.28	27.783	
10,200.00	10,146.11	10,186.57	10,156.11	36.52	36.11	91.40	-201.25	1,544.42	1,980.89	1,909.29	71.59	27.669	
10,250.00	10,190.67	10,231.13	10,200.67	36.64	36.26	91.91	-201.25	1,544.42	1,981.62	1,909.74	71.89	27.566	
10,300.00	10,233.09	10,273.55	10,243.09	36.75	36.41	92.44	-201.25	1,544.42	1,982.81	1,910.65	72.17	27.476	
10,350.00	10,273.04	10,313.50	10,283.04	36.85	36.55	92.96	-201.25	1,544.42	1,984.59	1,912.16	72.43	27.401	
10,400.00	10,310.22	10,350.68	10,320.22	36.94	36.68	93.42	-201.25	1,544.42	1,987.10	1,914.42	72.68	27.342	
10,450.00	10,344.35	10,384.80	10,354.35	37.01	36.81	93.80	-201.25	1,544.42	1,990.48	1,917.57	72.91	27.301	
10,500.00	10,375.16	10,415.62	10,385.16	37.07	36.91	94.06	-201.25	1,544.42	1,994.87	1,921.74	73.12	27.281	
10,550.00	10,402.43	10,442.88	10,412.43	37.11	37.01	94.16	-201.25	1,544.42	2,000.37	1,927.05	73.32	27.282	
10,600.00	10,425.94	10,466.40	10,435.94	37.15	37.09	94.08	-201.25	1,544.42	2,007.10	1,933.60	73.50	27.306	
10,650.00	10,445.52	10,485.97	10,455.52	37.19	37.16	93.79	-201.25	1,544.42	2,015.12	1,941.45	73.67	27.354	
10,700.00	10,461.01	10,501.47	10,471.01	37.23	37.22	93.27	-201.25	1,544.42	2,024.47	1,950.66	73.82	27.426	
10,750.00	10,472.31	10,512.76	10,482.31	37.30	37.26	92.49	-201.25	1,544.42	2,035.16	1,961.22	73.94	27.523	
10,800.00	10,479.31	10,519.77	10,489.31	37.41	37.28	91.46	-201.25	1,544.42	2,047.15	1,973.10	74.05	27.644	
10,850.00	10,481.98	10,522.44	10,491.98	37.55	37.29	90.16	-201.25	1,544.42	2,060.38	1,986.24	74.14	27.789	
10,858.49	10,482.00	10,522.46	10,492.00	37.57	37.29	89.92	-201.25	1,544.42	2,062.75	1,988.59	74.16	27.816	
10,900.00	10,481.79	10,522.25	10,491.79	37.70	37.29	89.91	-201.25	1,544.42	2,074.76	2,000.53	74.22	27.953	
11,000.00	10,481.28	10,521.74	10,491.28	38.06	37.29	89.89	-201.25	1,544.42	2,106.77	2,032.36	74.41	28.313	
11,100.00	10,480.78	10,521.24	10,490.78	38.49	37.29	89.88	-201.25	1,544.42	2,142.97	2,068.34	74.63	28.715	
11,200.00	10,480.27	10,520.73	10,490.27	38.98	37.29	89.87	-201.25	1,544.42	2,183.16	2,108.29	74.87	29.160	
11,300.00	10,479.77	12,295.22	11,485.04	39.53	42.67	116.69	822.39	1,537.63	2,216.23	2,139.85	76.38	29.017	
11,400.00	10,479.26	12,395.22	11,484.61	40.14	43.23	116.69	922.39	1,536.96	2,216.26	2,138.81	77.45	28.617	
11,500.00	10,478.76	12,495.23	11,484.17	40.81	43.85	116.69	1,022.39	1,536.30	2,216.29	2,137.67	78.62	28.191	
11,600.00	10,478.25	12,595.23	11,483.73	41.54	44.52	116.69	1,122.39	1,535.64	2,216.32	2,136.43	79.88	27.744	
11,700.00	10,477.75	12,695.23	11,483.29	42.31	45.24	116.69	1,222.40	1,534.97	2,216.35	2,135.10	81.25	27.279	
11,800.00	10,477.24	12,795.24	11,482.85	43.14	46.00	116.69	1,322.40	1,534.31	2,216.38	2,133.68	82.70	26.802	
11,900.00	10,476.74	12,895.24	11,482.41	44.01	46.81	116.69	1,422.40	1,533.64	2,216.41	2,132.18	84.23	26.314	
12,000.00	10,476.23	12,995.25	11,481.98	44.92	47.67	116.70	1,522.40	1,532.98	2,216.44	2,130.60	85.84	25.820	
12,100.00	10,475.73	13,095.25	11,481.54	45.88	48.57	116.70	1,622.40	1,532.31	2,216.47	2,128.94	87.53	25.323	
12,200.00	10,475.22	13,195.26	11,481.10	46.87	49.50	116.70	1,722.40	1,531.65	2,216.49	2,127.21	89.29	24.825	
12,300.00	10,474.72	13,295.26	11,480.66	47.90	50.48	116.70	1,822.40	1,530.99	2,216.52	2,125.41	91.11	24.328	
12,400.00	10,474.22	13,395.27	11,480.22	48.97	51.48	116.70	1,922.40	1,530.32	2,216.55	2,123.55	93.00	23.834	
12,500.00	10,473.71	13,495.27	11,479.78	50.06	52.52	116.70	2,022.41	1,529.66	2,216.58	2,121.64	94.94	23.346	
12,600.00	10,473.21	13,595.27	11,479.33	51.19	53.60	116.70	2,122.41	1,528.99	2,216.61	2,119.66	96.95	22.864	
12,700.00	10,472.70	13,695.28	11,478.89	52.34	54.70	116.71	2,222.41	1,528.33	2,216.64	2,117.64	99.00	22.391	
12,800.00	10,472.20	13,795.28	11,478.45	53.52	55.82	116.71	2,322.41	1,527.66	2,216.67	2,115.57	101.10	21.926	
12,900.00	10,471.70	13,895.29	11,478.01	54.73	56.98	116.71	2,422.41	1,527.00	2,216.69	2,113.45	103.25	21.470	
13,000.00	10,471.19	13,995.29	11,477.57	55.96	58.16	116.71	2,522.41	1,526.33	2,216.72	2,111.28	105.44	21.024	
13,100.00	10,470.69	14,095.30	11,477.13	57.21	59.36	116.71	2,622.41	1,525.67	2,216.75	2,109.08	107.67	20.589	
13,200.00	10,470.19	14,195.30	11,476.68	58.48	60.58	116.71	2,722.41	1,525.00	2,216.77	2,106.84	109.93	20.165	
13,300.00	10,469.68	14,295.31	11,476.24	59.77	61.82	116.71	2,822.42	1,524.34	2,216.80	2,104.57	112.23	19.752	
13,400.00	10,469.18	14,395.31	11,475.80	61.07	63.08	116.72	2,922.42	1,523.67	2,216.83	2,102.26	114.57	19.349	
13,500.00	10,468.68	14,495.31	11,475.36	62.40	64.36	116.72	3,022.42	1,523.00	2,216.86	2,099.92	116.94	18.958	
13,600.00	10,468.18	14,595.32	11,474.91	63.73	65.66	116.72	3,122.42	1,522.34	2,216.88	2,097.55	119.33	18.577	
13,700.00	10,467.67	14,695.32	11,474.47	65.09	66.97	116.72	3,222.42	1,521.67	2,216.91	2,095.15	121.75	18.208	
13,800.00	10,467.17	14,795.33	11,474.03	66.46	68.30	116.72	3,322.42	1,521.01	2,216.93	2,092.73	124.20	17.849	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 706H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference 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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,466.67	14,895.33	11,473.58	67.83	69.64	116.72	3,422.42	1,520.34	2,216.96	2,090.29	126.67	17.501	
14,000.00	10,466.17	14,995.34	11,473.14	69.23	71.00	116.72	3,522.42	1,519.67	2,216.99	2,087.82	129.17	17.163	
14,100.00	10,465.67	15,095.34	11,472.69	70.63	72.36	116.73	3,622.43	1,519.01	2,217.01	2,085.32	131.69	16.835	
14,200.00	10,465.17	15,195.35	11,472.25	72.04	73.74	116.73	3,722.43	1,518.34	2,217.04	2,082.81	134.22	16.518	
14,300.00	10,464.66	15,295.35	11,471.80	73.47	75.13	116.73	3,822.43	1,517.68	2,217.06	2,080.28	136.78	16.209	
14,400.00	10,464.16	15,395.35	11,471.36	74.90	76.53	116.73	3,922.43	1,517.01	2,217.09	2,077.73	139.35	15.910	
14,500.00	10,463.66	15,495.36	11,470.91	76.34	77.94	116.73	4,022.43	1,516.34	2,217.11	2,075.17	141.94	15.620	
14,600.00	10,463.16	15,595.36	11,470.46	77.80	79.36	116.73	4,122.43	1,515.68	2,217.14	2,072.59	144.55	15.338	
14,700.00	10,462.66	15,695.37	11,470.02	79.26	80.79	116.73	4,222.43	1,515.01	2,217.16	2,069.99	147.17	15.065	
14,800.00	10,462.16	15,795.37	11,469.57	80.72	82.23	116.73	4,322.43	1,514.34	2,217.19	2,067.38	149.81	14.800	
14,900.00	10,461.66	15,895.38	11,469.13	82.20	83.68	116.74	4,422.43	1,513.67	2,217.21	2,064.75	152.46	14.543	
15,000.00	10,461.16	15,995.38	11,468.68	83.68	85.13	116.74	4,522.44	1,513.01	2,217.23	2,062.11	155.12	14.294	
15,100.00	10,460.66	16,095.38	11,468.23	85.16	86.59	116.74	4,622.44	1,512.34	2,217.26	2,059.47	157.79	14.052	
15,200.00	10,460.16	16,195.39	11,467.78	86.66	88.06	116.74	4,722.44	1,511.67	2,217.28	2,056.80	160.48	13.817	
15,300.00	10,459.66	16,295.39	11,467.34	88.16	89.53	116.74	4,822.44	1,511.01	2,217.30	2,054.13	163.17	13.589	
15,400.00	10,459.16	16,395.40	11,466.89	89.66	91.01	116.74	4,922.44	1,510.34	2,217.33	2,051.45	165.88	13.367	
15,500.00	10,458.66	16,495.40	11,466.44	91.17	92.50	116.74	5,022.44	1,509.67	2,217.35	2,048.75	168.60	13.152	
15,600.00	10,458.16	16,595.41	11,465.99	92.69	93.99	116.74	5,122.44	1,509.00	2,217.37	2,046.05	171.32	12.943	
15,700.00	10,457.66	16,695.41	11,465.54	94.21	95.49	116.75	5,222.44	1,508.34	2,217.40	2,043.34	174.06	12.740	
15,800.00	10,457.16	16,795.42	11,465.09	95.73	96.99	116.75	5,322.45	1,507.67	2,217.42	2,040.62	176.80	12.542	
15,900.00	10,456.66	16,895.42	11,464.64	97.26	98.50	116.75	5,422.45	1,507.00	2,217.44	2,037.89	179.55	12.350	
16,000.00	10,456.16	16,995.42	11,464.19	98.79	100.01	116.75	5,522.45	1,506.33	2,217.46	2,035.16	182.30	12.163	
16,100.00	10,455.66	17,095.43	11,463.74	100.33	101.53	116.75	5,622.45	1,505.66	2,217.48	2,032.41	185.07	11.982	
16,200.00	10,455.16	17,195.43	11,463.29	101.87	103.05	116.75	5,722.45	1,505.00	2,217.51	2,029.66	187.84	11.805	
16,300.00	10,454.67	17,295.44	11,462.84	103.41	104.58	116.75	5,822.45	1,504.33	2,217.53	2,026.91	190.62	11.633	
16,400.00	10,454.17	17,395.44	11,462.39	104.96	106.11	116.75	5,922.45	1,503.66	2,217.55	2,024.15	193.40	11.466	
16,500.00	10,453.67	17,495.45	11,461.94	106.51	107.64	116.75	6,022.45	1,502.99	2,217.57	2,021.38	196.19	11.303	
16,600.00	10,453.17	17,595.45	11,461.49	108.07	109.18	116.76	6,122.45	1,502.32	2,217.59	2,018.60	198.99	11.144	
16,700.00	10,452.67	17,695.46	11,461.04	109.62	110.72	116.76	6,222.46	1,501.65	2,217.61	2,015.82	201.79	10.990	
16,800.00	10,452.17	17,795.46	11,460.59	111.18	112.26	116.76	6,322.46	1,500.99	2,217.63	2,013.04	204.59	10.839	
16,900.00	10,451.68	17,895.46	11,460.14	112.74	113.81	116.76	6,422.46	1,500.32	2,217.65	2,010.25	207.41	10.692	
17,000.00	10,451.18	17,995.47	11,459.68	114.31	115.36	116.76	6,522.46	1,499.65	2,217.67	2,007.45	210.22	10.549	
17,100.00	10,450.68	18,095.47	11,459.23	115.88	116.91	116.76	6,622.46	1,498.98	2,217.69	2,004.65	213.04	10.410	
17,200.00	10,450.18	18,195.48	11,458.78	117.45	118.47	116.76	6,722.46	1,498.31	2,217.71	2,001.85	215.86	10.274	
17,300.00	10,449.69	18,295.48	11,458.33	119.02	120.02	116.76	6,822.46	1,497.64	2,217.73	1,999.04	218.69	10.141	
17,400.00	10,449.19	18,395.49	11,457.87	120.60	121.58	116.76	6,922.46	1,496.97	2,217.75	1,996.23	221.52	10.011	
17,500.00	10,448.69	18,495.49	11,457.42	122.17	123.15	116.77	7,022.47	1,496.30	2,217.77	1,993.42	224.36	9.885	
17,600.00	10,448.20	18,595.50	11,456.97	123.75	124.71	116.77	7,122.47	1,495.63	2,217.79	1,990.60	227.19	9.762	
17,700.00	10,447.70	18,695.50	11,456.51	125.33	126.28	116.77	7,222.47	1,494.96	2,217.81	1,987.77	230.04	9.641	
17,800.00	10,447.20	18,795.50	11,456.06	126.91	127.85	116.77	7,322.47	1,494.29	2,217.83	1,984.95	232.88	9.523	
17,900.00	10,446.71	18,895.51	11,455.60	128.50	129.42	116.77	7,422.47	1,493.62	2,217.85	1,982.12	235.73	9.408	
18,000.00	10,446.21	18,995.51	11,455.15	130.09	131.00	116.77	7,522.47	1,492.95	2,217.87	1,979.29	238.58	9.296	
18,100.00	10,445.71	19,095.52	11,454.69	131.67	132.58	116.77	7,622.47	1,492.28	2,217.88	1,976.45	241.43	9.186	
18,200.00	10,445.22	19,195.52	11,454.24	133.26	134.15	116.77	7,722.47	1,491.61	2,217.90	1,973.61	244.29	9.079	
18,300.00	10,444.72	19,295.53	11,453.78	134.86	135.73	116.77	7,822.47	1,490.94	2,217.92	1,970.77	247.15	8.974	
18,400.00	10,444.23	19,395.53	11,453.33	136.45	137.32	116.77	7,922.48	1,490.27	2,217.94	1,967.93	250.01	8.871	
18,500.00	10,443.73	19,495.54	11,452.87	138.04	138.90	116.77	8,022.48	1,489.60	2,217.96	1,965.08	252.87	8.771	
18,600.00	10,443.24	19,595.54	11,452.41	139.64	140.49	116.78	8,122.48	1,488.93	2,217.97	1,962.24	255.74	8.673	
18,700.00	10,442.74	19,695.54	11,451.96	141.24	142.07	116.78	8,222.48	1,488.26	2,217.99	1,959.39	258.60	8.577	
18,800.00	10,442.25	19,795.55	11,451.50	142.84	143.66	116.78	8,322.48	1,487.59	2,218.01	1,956.53	261.47	8.483	
18,900.00	10,441.75	19,895.55	11,451.04	144.44	145.25	116.78	8,422.48	1,486.92	2,218.02	1,953.68	264.34	8.391	

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

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Offset Design: SEC. 33 T20S R33E N.M.P.M. (GRID) - GAVILON FED COM 706H - ORIGINAL WELLBORE - PROPOSAL #1

Offset Site Error: 0.00 usft

Survey Program: 0-OWSG (Rev2) MWD

Offset Well Error: 0.00 usft

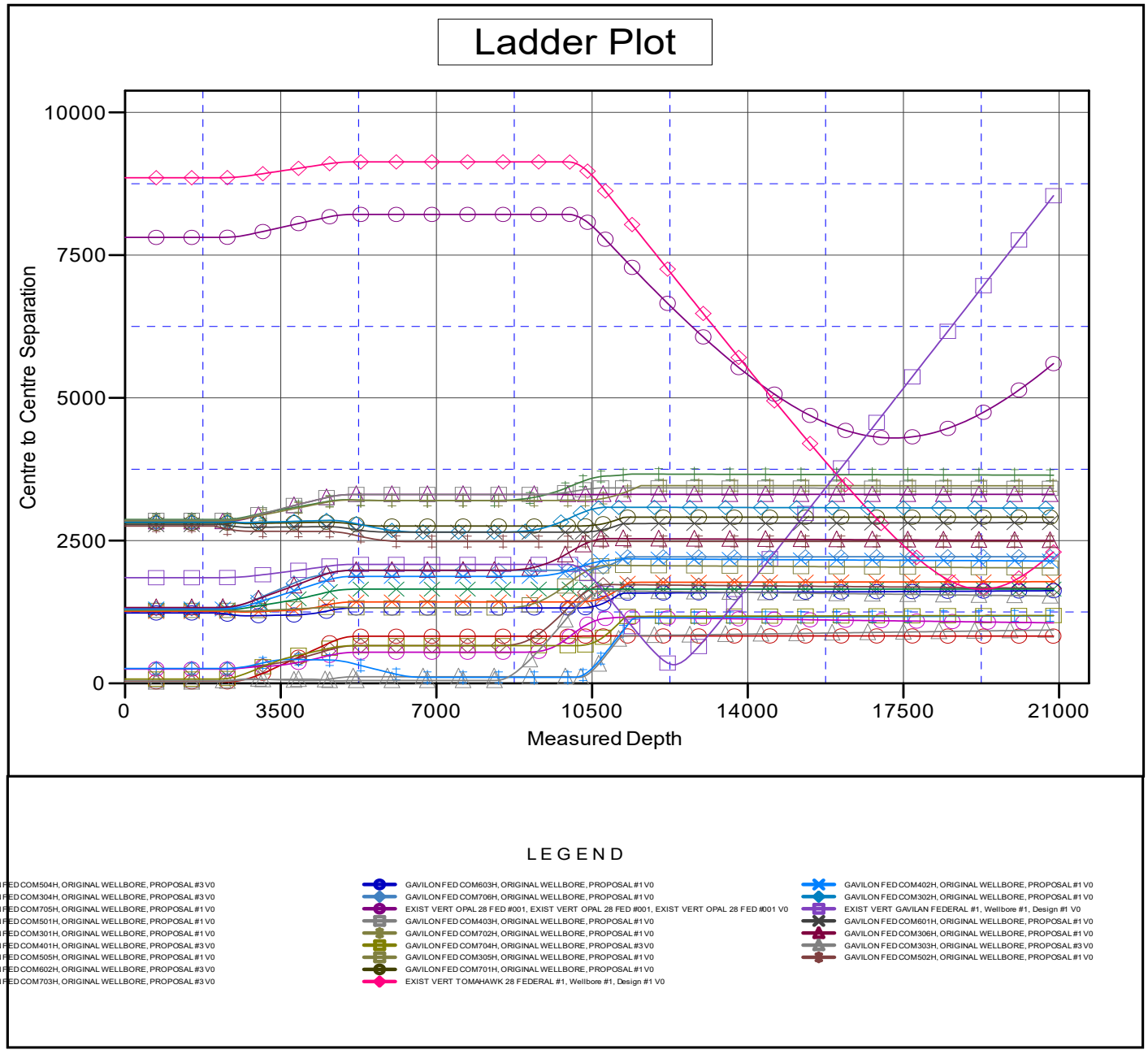
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	10,441.26	19,995.56	11,450.59	146.04	146.84	116.78	8,522.48	1,486.25	2,218.04	1,950.82	267.22	8.300	
19,100.00	10,440.76	20,095.56	11,450.13	147.64	148.44	116.78	8,622.48	1,485.58	2,218.06	1,947.97	270.09	8.212	
19,200.00	10,440.27	20,195.57	11,449.67	149.24	150.03	116.78	8,722.48	1,484.91	2,218.07	1,945.11	272.97	8.126	
19,300.00	10,439.77	20,295.57	11,449.21	150.85	151.63	116.78	8,822.49	1,484.24	2,218.09	1,942.24	275.85	8.041	
19,400.00	10,439.28	20,395.57	11,448.75	152.45	153.22	116.78	8,922.49	1,483.57	2,218.11	1,939.38	278.73	7.958	
19,500.00	10,438.78	20,495.58	11,448.30	154.06	154.82	116.78	9,022.49	1,482.89	2,218.12	1,936.52	281.61	7.877	
19,600.00	10,438.29	20,595.58	11,447.84	155.67	156.42	116.78	9,122.49	1,482.22	2,218.14	1,933.65	284.49	7.797	
19,700.00	10,437.80	20,695.59	11,447.38	157.28	158.02	116.78	9,222.49	1,481.55	2,218.15	1,930.78	287.37	7.719	
19,800.00	10,437.30	20,795.59	11,446.92	158.89	159.62	116.79	9,322.49	1,480.88	2,218.17	1,927.91	290.26	7.642	
19,900.00	10,436.81	20,895.60	11,446.46	160.50	161.23	116.79	9,422.49	1,480.21	2,218.18	1,925.04	293.14	7.567	
20,000.00	10,436.32	20,995.60	11,446.00	162.11	162.83	116.79	9,522.49	1,479.54	2,218.20	1,922.17	296.03	7.493	
20,100.00	10,435.82	21,095.61	11,445.54	163.72	164.44	116.79	9,622.49	1,478.87	2,218.21	1,919.30	298.92	7.421	
20,200.00	10,435.33	21,195.61	11,445.08	165.34	166.04	116.79	9,722.50	1,478.19	2,218.23	1,916.42	301.80	7.350	
20,300.00	10,434.84	21,295.61	11,444.62	166.95	167.65	116.79	9,822.50	1,477.52	2,218.24	1,913.55	304.69	7.280	
20,400.00	10,434.34	21,395.62	11,444.16	168.57	169.26	116.79	9,922.50	1,476.85	2,218.25	1,910.67	307.59	7.212	
20,500.00	10,433.85	21,495.62	11,443.69	170.18	170.87	116.79	10,022.50	1,476.18	2,218.27	1,907.79	310.48	7.145	
20,600.00	10,433.36	21,595.63	11,443.23	171.80	172.48	116.79	10,122.50	1,475.51	2,218.28	1,904.91	313.37	7.079	
20,700.00	10,432.86	21,695.63	11,442.77	173.42	174.09	116.79	10,222.50	1,474.83	2,218.30	1,902.03	316.26	7.014	
20,800.00	10,432.37	21,795.64	11,442.31	175.04	175.70	116.79	10,322.50	1,474.16	2,218.31	1,899.15	319.16	6.951	
20,803.52	10,432.36	21,799.15	11,442.29	175.09	175.76	116.79	10,326.02	1,474.14	2,218.31	1,899.05	319.26	6.948	
20,875.64	10,432.00	21,862.35	11,442.00	176.26	176.77	116.79	10,389.21	1,473.71	2,218.34	1,897.15	321.19	6.907	SF

Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB EST 24.5ft @ 3682.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: GAVILON FED COM 503H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.35°



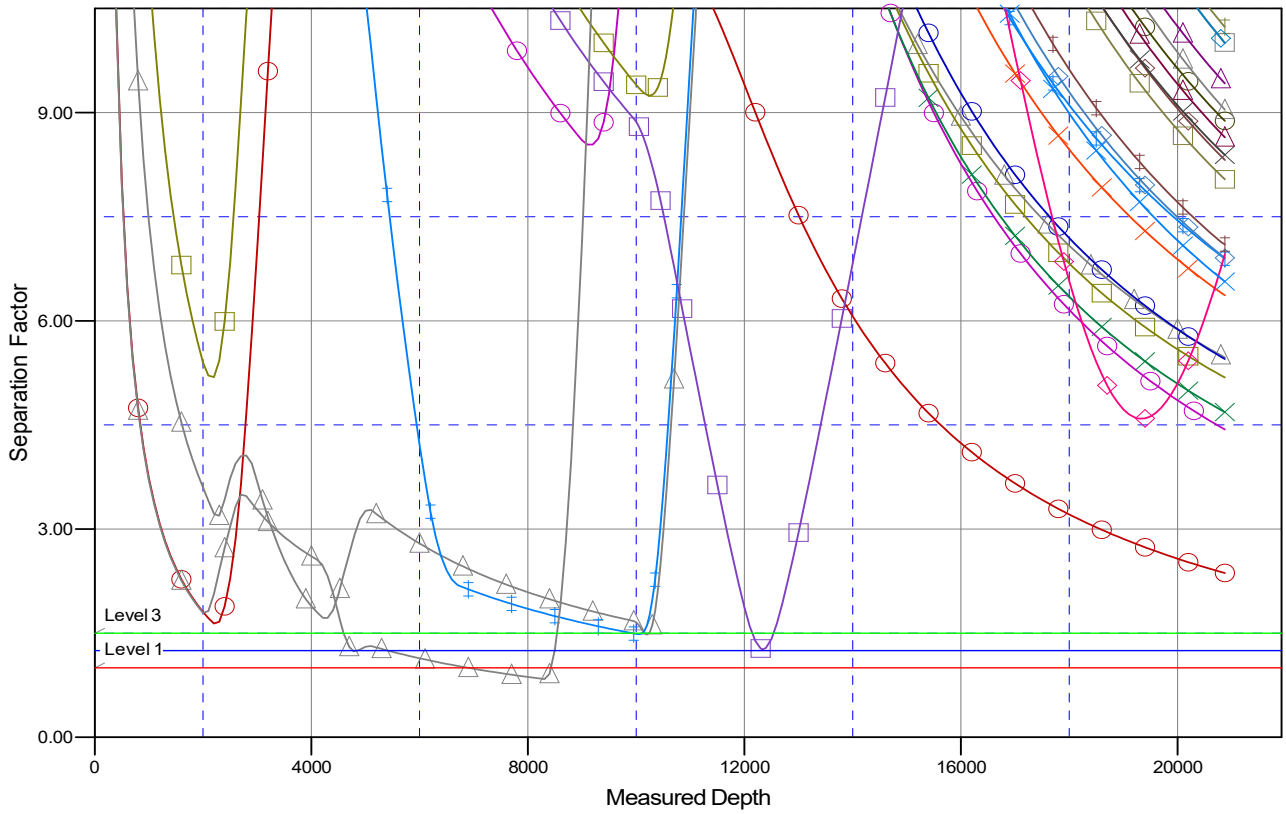
Anticollision Report

Company:	ASCENT ENERGY	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Reference Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	Database 1
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB EST 24.5ft @ 3682.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: GAVILON FED COM 503H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.35°

Separation Factor Plot



LEGEND

ON FED COM504H, ORIGINAL WELLBORE, PROPOSAL #3 V0
ON FED COM304H, ORIGINAL WELLBORE, PROPOSAL #3 V0
ON FED COM705H, ORIGINAL WELLBORE, PROPOSAL #1 V0
ON FED COM501H, ORIGINAL WELLBORE, PROPOSAL #1 V0
ON FED COM301H, ORIGINAL WELLBORE, PROPOSAL #1 V0
ON FED COM401H, ORIGINAL WELLBORE, PROPOSAL #3 V0
ON FED COM505H, ORIGINAL WELLBORE, PROPOSAL #1 V0
ON FED COM602H, ORIGINAL WELLBORE, PROPOSAL #3 V0
ON FED COM703H, ORIGINAL WELLBORE, PROPOSAL #3 V0
GAVILON FED COM603H, ORIGINAL WELLBORE, PROPOSAL #1 V0
GAVILON FED COM706H, ORIGINAL WELLBORE, PROPOSAL #1 V0
EXIST VERT OPAL 28 FED #001, EXIST VERT OPAL 28 FED #001, EXIST VERT OPAL 28 FED #001 V0
GAVILON FED COM403H, ORIGINAL WELLBORE, PROPOSAL #1 V0
GAVILON FED COM702H, ORIGINAL WELLBORE, PROPOSAL #1 V0
GAVILON FED COM704H, ORIGINAL WELLBORE, PROPOSAL #3 V0
GAVILON FED COM305H, ORIGINAL WELLBORE, PROPOSAL #1 V0
GAVILON FED COM701H, ORIGINAL WELLBORE, PROPOSAL #1 V0
EXIST VERT TOMAHAWK 28 FEDERAL #1, Wellbore #1, Design #1 V0
GAVILON FED COM402H, ORIGINAL WELLBORE, PROPOSAL #1 V0
GAVILON FED COM302H, ORIGINAL WELLBORE, PROPOSAL #1 V0
EXIST VERT GAVILAN FEDERAL #1, Wellbore #1, Design #1 V0
GAVILON FED COM601H, ORIGINAL WELLBORE, PROPOSAL #1 V0
GAVILON FED COM306H, ORIGINAL WELLBORE, PROPOSAL #1 V0
GAVILON FED COM303H, ORIGINAL WELLBORE, PROPOSAL #3 V0
GAVILON FED COM502H, ORIGINAL WELLBORE, PROPOSAL #1 V0

ASCENT ENERGY

LEA COUNTY, NEW MEXICO (NAD 83) (GRID)
SEC. 33 T20S R33E N.M.P.M. (GRID)
GAVILON FED COM 503H

ORIGINAL WELLBORE
27 October, 2021

Plan: PROPOSAL #3

Released to Imaging: 11/8/2021 8:15:11 AM
Received by OCD: 11/5/2021 1:25:08 PM

ASCENT ENERGY

Project: LEA COUNTY, NEW MEXICO (NAD 83) (GRID)
Site: SEC. 33 T20S R33E N.M.P.M. (GRID)
Well: GAVILON FED COM 503H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #3

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 130ft FSL & 767ft FWL of Sec 33
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)
2800.00	12.00	244.01	2795.62	-27.44	-56.27	-27.06	62.60	EOB TO 12° INC
4529.32	12.00	244.01	4487.15	-185.00	-379.45	-182.48	422.15	END OF TANGENT
5129.32	0.00	0.00	5082.78	-212.44	-435.72	-209.54	484.75	EOD TO VERTICAL
9955.59	0.00	0.00	9909.05	-212.44	-435.72	-209.54	484.75	KOP (10°/100ft BUR)
10422.58	46.70	359.62	10326.02	-32.44	-436.91	-29.54	665.12	FTP: 100ft FSL & 330ft FWL of Sec 33
10858.49	90.29	359.62	10482.00	363.40	-439.54	366.31	1060.60	HZ LP: 495.75ft FSL & 330ft FWL of Sec 33
20825.63	90.28	359.61	10432.25	10330.20	-506.09	10333.33	11027.62	LTP: 100ft FNL & 330ft FWL of Sec 28
20875.64	90.28	359.61	10432.00	10380.20	-506.42	10383.33	11077.63	BHL: 50ft FNL & 330ft FWL of Sec 28

PROPOSED LOCAL COORDINATES:

SHL: 130ft FSL & 767ft FWL of Sec 33

FTP: 100ft FSL & 330ft FWL of Sec 33

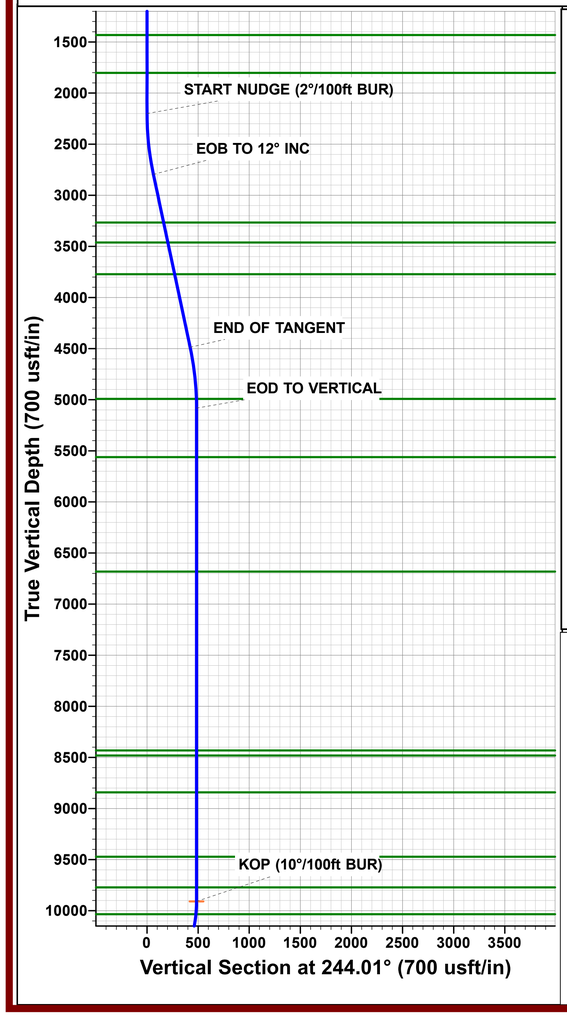
HZ LP: 495.75ft FSL & 330ft FWL of Sec 33

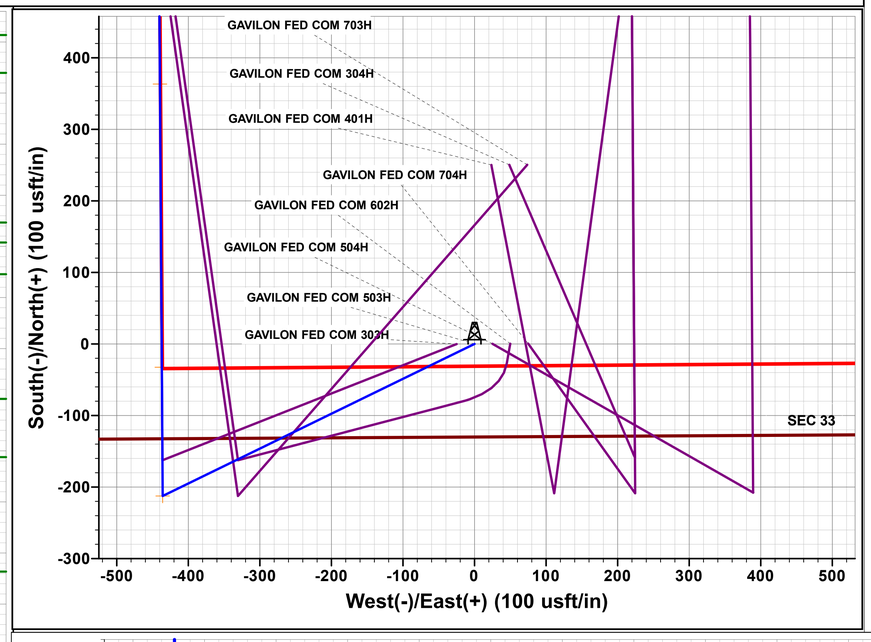
LTP: 100ft FNL & 330ft FWL of Sec 28

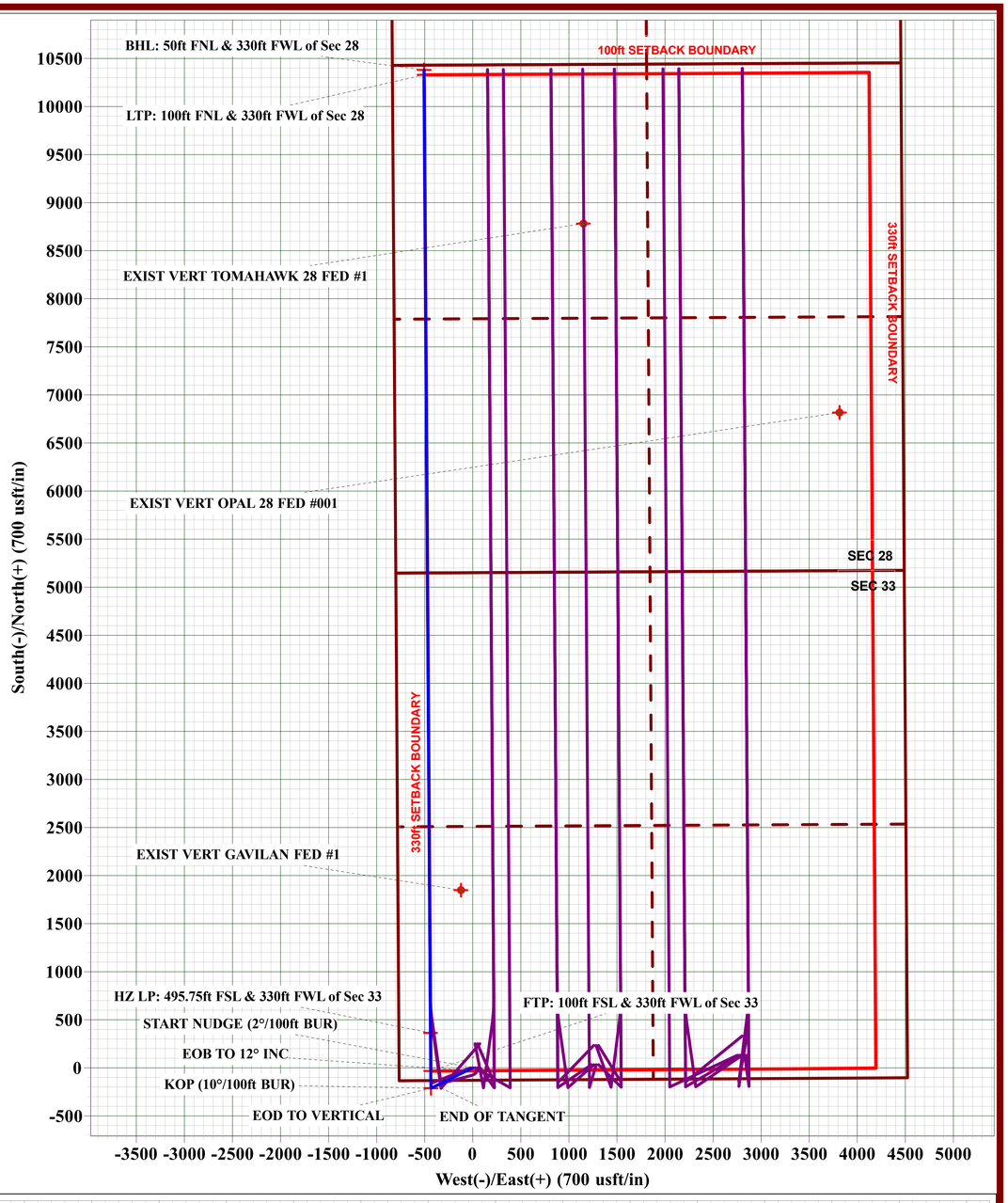
BHL: 50ft FNL & 330ft FWL of Sec 28

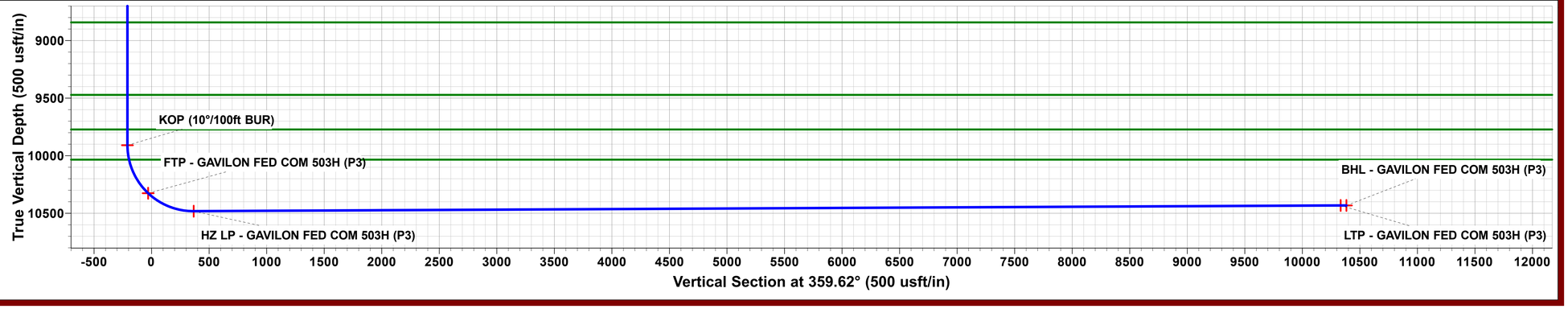
WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - GAVILON FED COM 503H (P3)	9909.05	-212.44	-435.72	32.522131	-103.675755
FTP - GAVILON FED COM 503H (P3)	10326.02	-32.44	-436.91	32.522626	-103.675755
BHL - GAVILON FED COM 503H (P3)	10432.00	10380.20	-506.42	32.551246	-103.675772
LTP - GAVILON FED COM 503H (P3)	10432.25	10330.20	-506.09	32.551109	-103.675772
HZ LP - GAVILON FED COM 503H (P3)	10482.00	363.31	-439.54	32.523714	-103.675756









Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Company:	ASCENT ENERGY	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Project LEA COUNTY, NEW MEXICO (NAD 83) (GRID)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site SEC. 33 T20S R33E N.M.P.M. (GRID)

Site Position:		**Northing:**	554,744.90 usft	**Latitude:**	32.523326
From:	Map	**Easting:**	744,451.60 usft	**Longitude:**	-103.674337
Position Uncertainty:	0.00 usft	**Slot Radius:**	1.10 ft	**Grid Convergence:**	0.35 °

Well GAVILON FED COM 503H

Well Position	**+N/-S**	-225.11 usft	**Northing:**	554,519.80 usft	**Latitude:**	32.522708
	+E/-W	1.40 usft	**Easting:**	744,453.00 usft	**Longitude:**	-103.674337
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,657.50 usft

Wellbore ORIGINAL WELLBORE

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2020-03-19	6.76	60.20	47,787.76983815

Design PROPOSAL #3

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	359.62

Plan Sections

MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usf	Build Rate (°/100usf	Turn Rate (°/100usf	TFO (°)	Target
0.00	0.00	0.00	0.00	-3,682.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	-1,482.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,800.00	12.00	244.01	2,795.62	-886.38	-27.44	-56.27	2.00	2.00	0.00	244.01	
4,529.32	12.00	244.01	4,487.15	805.15	-185.00	-379.45	0.00	0.00	0.00	0.00	
5,129.32	0.00	0.00	5,082.78	1,400.78	-212.44	-435.72	2.00	-2.00	0.00	180.00	
9,955.59	0.00	0.00	9,909.05	6,227.05	-212.44	-435.72	0.00	0.00	0.00	0.00	KOP - GAVILON FE
10,858.49	90.29	359.62	10,482.00	6,800.00	363.41	-439.54	10.00	10.00	0.00	359.62	
20,875.64	90.28	359.61	10,432.00	6,750.00	10,380.20	-506.42	0.00	0.00	0.00	-147.39	BHL - GAVILON FE

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Company:	ASCENT ENERGY	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHL: 130ft FSL & 767ft FWL of Sec 33										
0.00	***0.00***	***0.00***	***0.00***	***3,682.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
100.00	0.00	0.00	100.00	3,582.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	3,482.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	3,382.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	3,282.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	3,182.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	3,082.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	2,982.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	2,882.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	2,782.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	2,682.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	2,582.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	2,482.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	2,382.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	2,282.00	0.00	0.00	0.00	0.00	0.00	0.00
RSTLR										
1,432.00	***0.00***	***0.00***	***1,432.00***	***2,250.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
1,500.00	0.00	0.00	1,500.00	2,182.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	2,082.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	1,982.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	1,882.00	0.00	0.00	0.00	0.00	0.00	0.00
SALDO										
1,802.00	***0.00***	***0.00***	***1,802.00***	***1,880.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
1,900.00	0.00	0.00	1,900.00	1,782.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	1,682.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	1,582.00	0.00	0.00	0.00	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
2,200.00	***0.00***	***0.00***	***2,200.00***	***1,482.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
2,300.00	2.00	244.01	2,299.98	1,382.02	-0.76	-1.57	-0.75	2.00	2.00	0.00
2,400.00	4.00	244.01	2,399.84	1,282.16	-3.06	-6.27	-3.02	2.00	2.00	0.00
2,500.00	6.00	244.01	2,499.45	1,182.55	-6.88	-14.11	-6.78	2.00	2.00	0.00
2,600.00	8.00	244.01	2,598.70	1,083.30	-12.22	-25.06	-12.05	2.00	2.00	0.00
2,700.00	10.00	244.01	2,697.47	984.53	-19.07	-39.12	-18.81	2.00	2.00	0.00
EOB TO 12° INC										
2,800.00	***12.00***	***244.01***	***2,795.62***	***886.38***	***-27.44***	***-56.27***	***-27.06***	***2.00***	***2.00***	***0.00***
2,900.00	12.00	244.01	2,893.44	788.56	-36.55	-74.96	-36.05	0.00	0.00	0.00
3,000.00	12.00	244.01	2,991.25	690.75	-45.66	-93.65	-45.04	0.00	0.00	0.00
3,100.00	12.00	244.01	3,089.07	592.93	-54.77	-112.34	-54.02	0.00	0.00	0.00
3,200.00	12.00	244.01	3,186.88	495.12	-63.88	-131.02	-63.01	0.00	0.00	0.00
TANSIL										
3,281.91	***12.00***	***244.01***	***3,267.00***	***415.00***	***-71.34***	***-146.33***	***-70.37***	***0.00***	***0.00***	***0.00***
3,300.00	12.00	244.01	3,284.70	397.30	-72.99	-149.71	-72.00	0.00	0.00	0.00
3,400.00	12.00	244.01	3,382.51	299.49	-82.10	-168.40	-80.99	0.00	0.00	0.00
YATES										
3,481.26	***12.00***	***244.01***	***3,462.00***	***220.00***	***-89.51***	***-183.59***	***-88.29***	***0.00***	***0.00***	***0.00***
3,500.00	12.00	244.01	3,480.33	201.67	-91.22	-187.09	-89.97	0.00	0.00	0.00
3,600.00	12.00	244.01	3,578.14	103.86	-100.33	-205.78	-98.96	0.00	0.00	0.00
3,700.00	12.00	244.01	3,675.96	6.04	-109.44	-224.47	-107.95	0.00	0.00	0.00
CAPITAN_REEF_TOP										
3,798.19	***12.00***	***244.01***	***3,772.00***	***-90.00***	***-118.39***	***-242.82***	***-116.77***	***0.00***	***0.00***	***0.00***
3,800.00	12.00	244.01	3,773.77	-91.77	-118.55	-243.15	-116.94	0.00	0.00	0.00

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Company:	ASCENT ENERGY	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,900.00	12.00	244.01	3,871.59	-189.59	-127.66	-261.84	-125.92	0.00	0.00	0.00
4,000.00	12.00	244.01	3,969.40	-287.40	-136.77	-280.53	-134.91	0.00	0.00	0.00
4,100.00	12.00	244.01	4,067.22	-385.22	-145.89	-299.22	-143.90	0.00	0.00	0.00
4,200.00	12.00	244.01	4,165.03	-483.03	-155.00	-317.91	-152.89	0.00	0.00	0.00
4,300.00	12.00	244.01	4,262.84	-580.84	-164.11	-336.59	-161.87	0.00	0.00	0.00
4,400.00	12.00	244.01	4,360.66	-678.66	-173.22	-355.28	-170.86	0.00	0.00	0.00
4,500.00	12.00	244.01	4,458.47	-776.47	-182.33	-373.97	-179.85	0.00	0.00	0.00
END OF TANGENT										
4,529.32	***12.00***	***244.01***	***4,487.15***	***-805.15***	***-185.00***	***-379.45***	***-182.48***	***0.00***	***0.00***	***0.00***
4,600.00	10.59	244.01	4,556.46	-874.46	-191.07	-391.89	-188.47	2.00	-2.00	0.00
4,700.00	8.59	244.01	4,655.06	-973.06	-198.37	-406.86	-195.66	2.00	-2.00	0.00
4,800.00	6.59	244.01	4,754.18	-1,072.18	-204.15	-418.73	-201.37	2.00	-2.00	0.00
4,900.00	4.59	244.01	4,853.70	-1,171.70	-208.42	-427.48	-205.58	2.00	-2.00	0.00
5,000.00	2.59	244.01	4,953.50	-1,271.50	-211.16	-433.10	-208.28	2.00	-2.00	0.00
TOP_DELAWARE_SAND										
5,038.53	***1.82***	***244.01***	***4,992.00***	***-1,310.00***	***-211.81***	***-434.43***	***-208.92***	***2.00***	***-2.00***	***0.00***
5,100.00	0.59	244.01	5,053.46	-1,371.46	-212.37	-435.59	-209.48	2.00	-2.00	0.00
EOD TO VERTICAL										
5,129.32	***0.00***	***0.00***	***5,082.78***	***-1,400.78***	***-212.44***	***-435.72***	***-209.54***	***2.00***	***-2.00***	***0.00***
5,200.00	0.00	0.00	5,153.46	-1,471.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
5,300.00	0.00	0.00	5,253.46	-1,571.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
5,400.00	0.00	0.00	5,353.46	-1,671.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
5,500.00	0.00	0.00	5,453.46	-1,771.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
5,600.00	0.00	0.00	5,553.46	-1,871.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
CHERRY_CANYON										
5,608.54	***0.00***	***0.00***	***5,562.00***	***-1,880.00***	***-212.44***	***-435.72***	***-209.54***	***0.00***	***0.00***	***0.00***
5,700.00	0.00	0.00	5,653.46	-1,971.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
5,800.00	0.00	0.00	5,753.46	-2,071.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
5,900.00	0.00	0.00	5,853.46	-2,171.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
6,000.00	0.00	0.00	5,953.46	-2,271.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
6,100.00	0.00	0.00	6,053.46	-2,371.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
6,200.00	0.00	0.00	6,153.46	-2,471.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
6,300.00	0.00	0.00	6,253.46	-2,571.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
6,400.00	0.00	0.00	6,353.46	-2,671.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
6,500.00	0.00	0.00	6,453.46	-2,771.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
6,600.00	0.00	0.00	6,553.46	-2,871.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
6,700.00	0.00	0.00	6,653.46	-2,971.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
BRUSHY_CANYON										
6,728.54	***0.00***	***0.00***	***6,682.00***	***-3,000.00***	***-212.44***	***-435.72***	***-209.54***	***0.00***	***0.00***	***0.00***
6,800.00	0.00	0.00	6,753.46	-3,071.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
6,900.00	0.00	0.00	6,853.46	-3,171.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
7,000.00	0.00	0.00	6,953.46	-3,271.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
7,100.00	0.00	0.00	7,053.46	-3,371.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
7,200.00	0.00	0.00	7,153.46	-3,471.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
7,300.00	0.00	0.00	7,253.46	-3,571.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
7,400.00	0.00	0.00	7,353.46	-3,671.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
7,500.00	0.00	0.00	7,453.46	-3,771.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
7,600.00	0.00	0.00	7,553.46	-3,871.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
7,700.00	0.00	0.00	7,653.46	-3,971.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
7,800.00	0.00	0.00	7,753.46	-4,071.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
7,900.00	0.00	0.00	7,853.46	-4,171.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
8,000.00	0.00	0.00	7,953.46	-4,271.46	-212.44	-435.72	-209.54	0.00	0.00	0.00

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Company:	ASCENT ENERGY	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,100.00	0.00	0.00	8,053.46	-4,371.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
8,200.00	0.00	0.00	8,153.46	-4,471.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
8,300.00	0.00	0.00	8,253.46	-4,571.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
8,400.00	0.00	0.00	8,353.46	-4,671.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
BSPG_LIME										
8,478.54	***0.00***	***0.00***	***8,432.00***	***-4,750.00***	***-212.44***	***-435.72***	***-209.54***	***0.00***	***0.00***	***0.00***
8,500.00	0.00	0.00	8,453.46	-4,771.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
AVLN										
8,528.54	***0.00***	***0.00***	***8,482.00***	***-4,800.00***	***-212.44***	***-435.72***	***-209.54***	***0.00***	***0.00***	***0.00***
8,600.00	0.00	0.00	8,553.46	-4,871.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
8,700.00	0.00	0.00	8,653.46	-4,971.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
8,800.00	0.00	0.00	8,753.46	-5,071.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
LEONARD_B										
8,888.54	***0.00***	***0.00***	***8,842.00***	***-5,160.00***	***-212.44***	***-435.72***	***-209.54***	***0.00***	***0.00***	***0.00***
8,900.00	0.00	0.00	8,853.46	-5,171.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
9,000.00	0.00	0.00	8,953.46	-5,271.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
9,100.00	0.00	0.00	9,053.46	-5,371.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
9,200.00	0.00	0.00	9,153.46	-5,471.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
9,300.00	0.00	0.00	9,253.46	-5,571.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
9,400.00	0.00	0.00	9,353.46	-5,671.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
9,500.00	0.00	0.00	9,453.46	-5,771.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
1ST_BSPG_SND										
9,518.54	***0.00***	***0.00***	***9,472.00***	***-5,790.00***	***-212.44***	***-435.72***	***-209.54***	***0.00***	***0.00***	***0.00***
9,600.00	0.00	0.00	9,553.46	-5,871.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
9,700.00	0.00	0.00	9,653.46	-5,971.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
9,800.00	0.00	0.00	9,753.46	-6,071.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
2ND_BSPG										
9,818.54	***0.00***	***0.00***	***9,772.00***	***-6,090.00***	***-212.44***	***-435.72***	***-209.54***	***0.00***	***0.00***	***0.00***
9,900.00	0.00	0.00	9,853.46	-6,171.46	-212.44	-435.72	-209.54	0.00	0.00	0.00
KOP (10°/100ft BUR)										
9,955.59	***0.00***	***0.00***	***9,909.05***	***-6,227.05***	***-212.44***	***-435.72***	***-209.54***	***0.00***	***0.00***	***0.00***
10,000.00	4.44	359.62	9,953.41	-6,271.41	-210.72	-435.73	-207.82	10.00	10.00	0.00
2ND_BSPG_SND										
10,081.56	***12.60***	***359.62***	***10,034.00***	***-6,352.00***	***-198.65***	***-435.81***	***-195.75***	***10.00***	***10.00***	***0.00***
10,100.00	14.44	359.62	10,051.93	-6,369.93	-194.34	-435.84	-191.44	10.00	10.00	0.00
10,200.00	24.44	359.62	10,146.11	-6,464.11	-161.10	-436.06	-158.20	10.00	10.00	0.00
10,300.00	34.44	359.62	10,233.09	-6,551.09	-112.01	-436.39	-109.11	10.00	10.00	0.00
10,400.00	44.44	359.62	10,310.22	-6,628.22	-48.56	-436.81	-45.66	10.00	10.00	0.00
FTP: 100ft FSL & 330ft FWL of Sec 33										
10,422.58	***46.70***	***359.62***	***10,326.02***	***-6,644.02***	***-32.44***	***-436.91***	***-29.54***	***10.00***	***10.00***	***0.00***
10,500.00	54.44	359.62	10,375.16	-6,693.16	27.31	-437.31	30.21	10.00	10.00	0.00
10,600.00	64.44	359.62	10,425.94	-6,743.94	113.31	-437.88	116.21	10.00	10.00	0.00
10,700.00	74.44	359.62	10,461.01	-6,779.01	206.82	-438.50	209.73	10.00	10.00	0.00
10,800.00	84.44	359.62	10,479.31	-6,797.31	305.00	-439.15	307.91	10.00	10.00	0.00
HZ LP: 495.75ft FSL & 330ft FWL of Sec 33										
10,858.49	***90.29***	***359.62***	***10,482.00***	***-6,800.00***	***363.40***	***-439.54***	***366.31***	***10.00***	***10.00***	***0.00***
10,900.00	90.29	359.62	10,481.79	-6,799.79	404.91	-439.82	407.82	0.00	0.00	0.00
11,000.00	90.29	359.62	10,481.28	-6,799.28	504.91	-440.48	507.82	0.00	0.00	0.00
11,100.00	90.29	359.62	10,480.78	-6,798.78	604.90	-441.14	607.82	0.00	0.00	0.00
11,200.00	90.29	359.62	10,480.27	-6,798.27	704.90	-441.81	707.82	0.00	0.00	0.00
11,300.00	90.29	359.62	10,479.77	-6,797.77	804.90	-442.47	807.81	0.00	0.00	0.00
11,400.00	90.29	359.62	10,479.26	-6,797.26	904.89	-443.13	907.81	0.00	0.00	0.00

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Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Company:	ASCENT ENERGY	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,500.00	90.29	359.62	10,478.76	-6,796.76	1,004.89	-443.80	1,007.81	0.00	0.00	0.00
11,600.00	90.29	359.62	10,478.25	-6,796.25	1,104.89	-444.46	1,107.81	0.00	0.00	0.00
11,700.00	90.29	359.62	10,477.75	-6,795.75	1,204.88	-445.12	1,207.81	0.00	0.00	0.00
11,800.00	90.29	359.62	10,477.24	-6,795.24	1,304.88	-445.79	1,307.81	0.00	0.00	0.00
11,900.00	90.29	359.62	10,476.74	-6,794.74	1,404.88	-446.45	1,407.81	0.00	0.00	0.00
12,000.00	90.29	359.62	10,476.23	-6,794.23	1,504.87	-447.12	1,507.81	0.00	0.00	0.00
12,100.00	90.29	359.62	10,475.73	-6,793.73	1,604.87	-447.78	1,607.80	0.00	0.00	0.00
12,200.00	90.29	359.62	10,475.22	-6,793.22	1,704.87	-448.45	1,707.80	0.00	0.00	0.00
12,300.00	90.29	359.62	10,474.72	-6,792.72	1,804.86	-449.11	1,807.80	0.00	0.00	0.00
12,400.00	90.29	359.62	10,474.21	-6,792.21	1,904.86	-449.77	1,907.80	0.00	0.00	0.00
12,500.00	90.29	359.62	10,473.71	-6,791.71	2,004.86	-450.44	2,007.80	0.00	0.00	0.00
12,600.00	90.29	359.62	10,473.21	-6,791.21	2,104.85	-451.10	2,107.80	0.00	0.00	0.00
12,700.00	90.29	359.62	10,472.70	-6,790.70	2,204.85	-451.77	2,207.80	0.00	0.00	0.00
12,800.00	90.29	359.62	10,472.20	-6,790.20	2,304.85	-452.43	2,307.80	0.00	0.00	0.00
12,900.00	90.29	359.62	10,471.70	-6,789.70	2,404.84	-453.10	2,407.79	0.00	0.00	0.00
13,000.00	90.29	359.62	10,471.19	-6,789.19	2,504.84	-453.76	2,507.79	0.00	0.00	0.00
13,100.00	90.29	359.62	10,470.69	-6,788.69	2,604.83	-454.43	2,607.79	0.00	0.00	0.00
13,200.00	90.29	359.62	10,470.19	-6,788.19	2,704.83	-455.09	2,707.79	0.00	0.00	0.00
13,300.00	90.29	359.62	10,469.68	-6,787.68	2,804.83	-455.76	2,807.79	0.00	0.00	0.00
13,400.00	90.29	359.62	10,469.18	-6,787.18	2,904.82	-456.42	2,907.79	0.00	0.00	0.00
13,500.00	90.29	359.62	10,468.68	-6,786.68	3,004.82	-457.09	3,007.79	0.00	0.00	0.00
13,600.00	90.29	359.62	10,468.18	-6,786.18	3,104.82	-457.76	3,107.78	0.00	0.00	0.00
13,700.00	90.29	359.62	10,467.67	-6,785.67	3,204.81	-458.42	3,207.78	0.00	0.00	0.00
13,800.00	90.29	359.62	10,467.17	-6,785.17	3,304.81	-459.09	3,307.78	0.00	0.00	0.00
13,900.00	90.29	359.62	10,466.67	-6,784.67	3,404.81	-459.75	3,407.78	0.00	0.00	0.00
14,000.00	90.29	359.62	10,466.17	-6,784.17	3,504.80	-460.42	3,507.78	0.00	0.00	0.00
14,100.00	90.29	359.62	10,465.67	-6,783.67	3,604.80	-461.09	3,607.78	0.00	0.00	0.00
14,200.00	90.29	359.62	10,465.17	-6,783.17	3,704.80	-461.75	3,707.78	0.00	0.00	0.00
14,300.00	90.29	359.62	10,464.66	-6,782.66	3,804.79	-462.42	3,807.78	0.00	0.00	0.00
14,400.00	90.29	359.62	10,464.16	-6,782.16	3,904.79	-463.08	3,907.77	0.00	0.00	0.00
14,500.00	90.29	359.62	10,463.66	-6,781.66	4,004.79	-463.75	4,007.77	0.00	0.00	0.00
14,600.00	90.29	359.62	10,463.16	-6,781.16	4,104.78	-464.42	4,107.77	0.00	0.00	0.00
14,700.00	90.29	359.62	10,462.66	-6,780.66	4,204.78	-465.08	4,207.77	0.00	0.00	0.00
14,800.00	90.29	359.62	10,462.16	-6,780.16	4,304.78	-465.75	4,307.77	0.00	0.00	0.00
14,900.00	90.29	359.62	10,461.66	-6,779.66	4,404.77	-466.42	4,407.77	0.00	0.00	0.00
15,000.00	90.29	359.62	10,461.16	-6,779.16	4,504.77	-467.08	4,507.77	0.00	0.00	0.00
15,100.00	90.29	359.62	10,460.66	-6,778.66	4,604.77	-467.75	4,607.77	0.00	0.00	0.00
15,200.00	90.29	359.62	10,460.16	-6,778.16	4,704.76	-468.42	4,707.76	0.00	0.00	0.00
15,300.00	90.29	359.62	10,459.66	-6,777.66	4,804.76	-469.09	4,807.76	0.00	0.00	0.00
15,400.00	90.29	359.62	10,459.16	-6,777.16	4,904.75	-469.75	4,907.76	0.00	0.00	0.00
15,500.00	90.29	359.62	10,458.66	-6,776.66	5,004.75	-470.42	5,007.76	0.00	0.00	0.00
15,600.00	90.29	359.62	10,458.16	-6,776.16	5,104.75	-471.09	5,107.76	0.00	0.00	0.00
15,700.00	90.29	359.62	10,457.66	-6,775.66	5,204.74	-471.75	5,207.76	0.00	0.00	0.00
15,800.00	90.29	359.62	10,457.16	-6,775.16	5,304.74	-472.42	5,307.76	0.00	0.00	0.00
15,900.00	90.29	359.62	10,456.66	-6,774.66	5,404.74	-473.09	5,407.76	0.00	0.00	0.00
16,000.00	90.29	359.62	10,456.16	-6,774.16	5,504.73	-473.76	5,507.75	0.00	0.00	0.00
16,100.00	90.29	359.62	10,455.66	-6,773.66	5,604.73	-474.43	5,607.75	0.00	0.00	0.00
16,200.00	90.29	359.62	10,455.16	-6,773.16	5,704.73	-475.09	5,707.75	0.00	0.00	0.00
16,300.00	90.29	359.62	10,454.67	-6,772.67	5,804.72	-475.76	5,807.75	0.00	0.00	0.00
16,400.00	90.29	359.62	10,454.17	-6,772.17	5,904.72	-476.43	5,907.75	0.00	0.00	0.00
16,500.00	90.29	359.62	10,453.67	-6,771.67	6,004.72	-477.10	6,007.75	0.00	0.00	0.00
16,600.00	90.29	359.62	10,453.17	-6,771.17	6,104.71	-477.77	6,107.75	0.00	0.00	0.00
16,700.00	90.29	359.62	10,452.67	-6,770.67	6,204.71	-478.43	6,207.75	0.00	0.00	0.00

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Company:	ASCENT ENERGY	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,800.00	90.29	359.62	10,452.17	-6,770.17	6,304.71	-479.10	6,307.74	0.00	0.00	0.00
16,900.00	90.29	359.62	10,451.68	-6,769.68	6,404.70	-479.77	6,407.74	0.00	0.00	0.00
17,000.00	90.29	359.62	10,451.18	-6,769.18	6,504.70	-480.44	6,507.74	0.00	0.00	0.00
17,100.00	90.29	359.62	10,450.68	-6,768.68	6,604.70	-481.11	6,607.74	0.00	0.00	0.00
17,200.00	90.28	359.62	10,450.18	-6,768.18	6,704.69	-481.78	6,707.74	0.00	0.00	0.00
17,300.00	90.28	359.62	10,449.69	-6,767.69	6,804.69	-482.45	6,807.74	0.00	0.00	0.00
17,400.00	90.28	359.62	10,449.19	-6,767.19	6,904.69	-483.12	6,907.74	0.00	0.00	0.00
17,500.00	90.28	359.62	10,448.69	-6,766.69	7,004.68	-483.79	7,007.74	0.00	0.00	0.00
17,600.00	90.28	359.62	10,448.20	-6,766.20	7,104.68	-484.45	7,107.74	0.00	0.00	0.00
17,700.00	90.28	359.62	10,447.70	-6,765.70	7,204.67	-485.12	7,207.73	0.00	0.00	0.00
17,800.00	90.28	359.62	10,447.20	-6,765.20	7,304.67	-485.79	7,307.73	0.00	0.00	0.00
17,900.00	90.28	359.62	10,446.71	-6,764.71	7,404.67	-486.46	7,407.73	0.00	0.00	0.00
18,000.00	90.28	359.62	10,446.21	-6,764.21	7,504.66	-487.13	7,507.73	0.00	0.00	0.00
18,100.00	90.28	359.62	10,445.71	-6,763.71	7,604.66	-487.80	7,607.73	0.00	0.00	0.00
18,200.00	90.28	359.62	10,445.22	-6,763.22	7,704.66	-488.47	7,707.73	0.00	0.00	0.00
18,300.00	90.28	359.62	10,444.72	-6,762.72	7,804.65	-489.14	7,807.73	0.00	0.00	0.00
18,400.00	90.28	359.62	10,444.23	-6,762.23	7,904.65	-489.81	7,907.73	0.00	0.00	0.00
18,500.00	90.28	359.62	10,443.73	-6,761.73	8,004.65	-490.48	8,007.72	0.00	0.00	0.00
18,600.00	90.28	359.62	10,443.24	-6,761.24	8,104.64	-491.15	8,107.72	0.00	0.00	0.00
18,700.00	90.28	359.62	10,442.74	-6,760.74	8,204.64	-491.82	8,207.72	0.00	0.00	0.00
18,800.00	90.28	359.62	10,442.25	-6,760.25	8,304.64	-492.49	8,307.72	0.00	0.00	0.00
18,900.00	90.28	359.62	10,441.75	-6,759.75	8,404.63	-493.16	8,407.72	0.00	0.00	0.00
19,000.00	90.28	359.62	10,441.26	-6,759.26	8,504.63	-493.83	8,507.72	0.00	0.00	0.00
19,100.00	90.28	359.62	10,440.76	-6,758.76	8,604.63	-494.50	8,607.72	0.00	0.00	0.00
19,200.00	90.28	359.62	10,440.27	-6,758.27	8,704.62	-495.17	8,707.72	0.00	0.00	0.00
19,300.00	90.28	359.62	10,439.77	-6,757.77	8,804.62	-495.84	8,807.71	0.00	0.00	0.00
19,400.00	90.28	359.62	10,439.28	-6,757.28	8,904.62	-496.52	8,907.71	0.00	0.00	0.00
19,500.00	90.28	359.62	10,438.78	-6,756.78	9,004.61	-497.19	9,007.71	0.00	0.00	0.00
19,600.00	90.28	359.62	10,438.29	-6,756.29	9,104.61	-497.86	9,107.71	0.00	0.00	0.00
19,700.00	90.28	359.62	10,437.80	-6,755.80	9,204.61	-498.53	9,207.71	0.00	0.00	0.00
19,800.00	90.28	359.62	10,437.30	-6,755.30	9,304.60	-499.20	9,307.71	0.00	0.00	0.00
19,900.00	90.28	359.62	10,436.81	-6,754.81	9,404.60	-499.87	9,407.71	0.00	0.00	0.00
20,000.00	90.28	359.62	10,436.31	-6,754.31	9,504.59	-500.54	9,507.71	0.00	0.00	0.00
20,100.00	90.28	359.62	10,435.82	-6,753.82	9,604.59	-501.21	9,607.70	0.00	0.00	0.00
20,200.00	90.28	359.62	10,435.33	-6,753.33	9,704.59	-501.88	9,707.70	0.00	0.00	0.00
20,300.00	90.28	359.62	10,434.84	-6,752.84	9,804.58	-502.56	9,807.70	0.00	0.00	0.00
20,400.00	90.28	359.62	10,434.34	-6,752.34	9,904.58	-503.23	9,907.70	0.00	0.00	0.00
20,500.00	90.28	359.62	10,433.85	-6,751.85	10,004.58	-503.90	10,007.70	0.00	0.00	0.00
20,600.00	90.28	359.62	10,433.36	-6,751.36	10,104.57	-504.57	10,107.70	0.00	0.00	0.00
20,700.00	90.28	359.61	10,432.86	-6,750.86	10,204.57	-505.24	10,207.70	0.00	0.00	0.00
20,800.00	90.28	359.61	10,432.37	-6,750.37	10,304.57	-505.92	10,307.70	0.00	0.00	0.00
LTP: 100ft FNL & 330ft FWL of Sec 28										
20,825.63	***90.28***	***359.61***	***10,432.25***	***-6,750.25***	***10,330.20***	***-506.09***	***10,333.33***	***0.00***	***0.00***	***0.00***
BHL: 50ft FNL & 330ft FWL of Sec 28										
20,875.64	***90.28***	***359.61***	***10,432.00***	***-6,750.00***	***10,380.20***	***-506.42***	***10,383.33***	***0.00***	***0.00***	***0.00***

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well GAVILON FED COM 503H
Company:	ASCENT ENERGY	**TVD Reference:**	KB EST 24.5ft @ 3682.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB EST 24.5ft @ 3682.00usft
Site:	SEC. 33 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	GAVILON FED COM 503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,432.00	1,432.00	RSTLR		0.00	
1,802.00	1,802.00	SALDO		0.00	
3,281.91	3,267.00	TANSIL		0.00	
3,481.26	3,462.00	YATES		0.00	
3,798.19	3,772.00	CAPITAN_REEF_TOP		0.00	
5,038.53	4,992.00	TOP_DELAWARE_SAND		0.00	
5,608.54	5,562.00	CHERRY_CANYON		0.00	
6,728.54	6,682.00	BRUSHY_CANYON		0.00	
8,478.54	8,432.00	BSPG_LIME		0.00	
8,528.54	8,482.00	AVLN		0.00	
8,888.54	8,842.00	LEONARD_B		0.00	
9,518.54	9,472.00	1ST_BSPG_SND		0.00	
9,818.54	9,772.00	2ND_BSPG		0.00	
10,081.56	10,034.00	2ND_BSPG_SND		0.00	

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
0.00	0.00	0.00	0.00	SHL: 130ft FSL & 767ft FWL of Sec 33
2,200.00	2,200.00	0.00	0.00	START NUDGE (2°/100ft BUR)
2,800.00	2,795.62	-27.44	-56.27	EOB TO 12° INC
4,529.32	4,487.15	-185.00	-379.45	END OF TANGENT
5,129.32	5,082.78	-212.44	-435.72	EOD TO VERTICAL
9,955.59	9,909.05	-212.44	-435.72	KOP (10°/100ft BUR)
10,422.58	10,326.02	-32.44	-436.91	FTP: 100ft FSL & 330ft FWL of Sec 33
10,858.49	10,482.00	363.40	-439.54	HZ LP: 495.75ft FSL & 330ft FWL of Sec 33
20,825.63	10,432.25	10,330.20	-506.09	LTP: 100ft FNL & 330ft FWL of Sec 28
20,875.64	10,432.00	10,380.20	-506.42	BHL: 50ft FNL & 330ft FWL of Sec 28

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

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

CONDITIONS

Operator: ASCENT ENERGY, LLC. 1125 17th St Denver, CO 80202	OGRID: 325830
	Action Number: 60510
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/8/2021