

Well Name: GAVILON FED COM	Well Location: T20S / R33E / SEC 33 / SESW / 32.522775 / -103.67009	County or Parish/State: LEA / NM
Well Number: 706H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM57683	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548527	Well Status: Approved Application for Permit to Drill	Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Sundry ID: 2664879

Type of Submission: Notice of Intent

Date Sundry Submitted: 04/05/2022

Date proposed operation will begin: 08/01/2022

Type of Action: APD Change

Time Sundry Submitted: 03:16

Procedure Description: BLM Bond No. NMB001079 Surety Bond No. RLB0015172 Matador respectfully requests the option to make the following changes to the Gavilon Fed Com 706H: • Upsize Well and Casing Design. Details can be found in the attached Drill Plan with updated casing, cement and drilling fluid information. Casing specification sheets for the 7" x 5-1/2" production casing is attached as well as the Casing Design Assumption Worksheet for the updated design. • SHL change from 155' FSL and 2076' FWL to 185' FSL and 2001' FWL. The new SHL remains on the existing drill pad. • BHL change from 50' FNL and 2310' FWL to 100' FNL and 660' FWL. Updated Directional Plot attached. Also, Matador requests a Pool change from [96438] HAT MESA; WOLFCAMP to [30213] HAT MESA; BONE SPRING.

NOI Attachments

Procedure Description

- 2022030495_MATADOR_GAVILON_706H_LEA_C102_FINAL_03_25_2022_20220331204721.pdf
- Gavilon_Fed_Com_706H__Plan_1__20220331204106.pdf
- Gavilon_Fed_Com_706H__Plan_1__Plot_20220331204105.pdf
- Gavilon_Fed_Com_706H__Plan_1__AC_Report_20220331204059.pdf
- Casing_Specs_5.5in_20lb_Hunting_TLW_SC_20220331204058.pdf
- Gavilon_706H_Drill_Plan___Casing_Cement_Mud_Sundry_20220331204058.pdf
- BLM_Casing_Design_Assumptions_4_string_20220331204058.pdf

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Casing_Specs_7.0_29_P110EC_DWC_C__20220331204058.pdf

Operator

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

Operator Electronic Signature: NICKY FITZGERALD	Signed on: MAR 31, 2022 08:41 PM
Name: MATADOR PRODUCTION COMPANY	
Title: Regulatory	
Street Address: 5400 LBJ FREEWAY STE 1500	
City: DALLAS	State: TX
Phone: (972) 371-5448	
Email address: nicky.fitzgerald@matadorresources.com	

Field

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: 06/16/2022
Signature: Cody R. Layton	

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025 -48527	² Pool Code 30213	³ Pool Name HAT MESA; BONE SPRING
⁴ Property Code 332434	⁵ Property Name GAVILON FED COM	⁶ Well Number 706H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3,667'

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
N	33	20 S	33 E		185	SOUTH	2,001	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		100	NORTH	660	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	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. Signature: <i>Nicky Fitzgerald</i> Date: 6/31/2022 Printed Name: Nicky Fitzgerald E-mail Address: nicky.fitzgerald@matadorresources.com
	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. Date of Survey: 03-25-2022 Signature and Seal of Professional Surveyor: <i>Mark Dillon Harp</i> MARK DILLON HARP 23786 Certificate Number: BK 2022030495	
	SHL (NAD83 NME) Y = 554,581.8 X = 745,686.2 LAT. = 32.522857 °N LONG. = 103.670335 °W FTP (NAD83 NME) Y = 554,489.3 X = 744,346.2 LAT. = 32.522626 °N LONG. = 103.674684 °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 = 564,954.1 N , X = 744,938.9 E G - Y = 562,313.8 N , X = 744,956.5 E H - Y = 559,673.1 N , X = 744,974.2 E I - Y = 557,033.7 N , X = 744,991.7 E J - Y = 554,393.0 N , X = 745,009.1 E	LTP (NAD83 NME) Y = 564,851.1 X = 744,277.0 LAT. = 32.551107 °N LONG. = 103.674701 °W BHL (NAD83 NME) Y = 564,851.1 X = 744,277.0 LAT. = 32.551107 °N LONG. = 103.674701 °W
	SHL (NAD27 NME) Y = 554,520.7 X = 704,505.5 LAT. = 32.522737 °N LONG. = 103.669842 °W FTP (NAD27 NME) Y = 554,428.1 X = 703,165.5 LAT. = 32.522505 °N LONG. = 103.674190 °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 = 564,892.8 N , X = 703,758.5 E G - Y = 562,252.5 N , X = 703,776.1 E H - Y = 559,611.9 N , X = 703,793.7 E I - Y = 556,972.5 N , X = 703,811.1 E J - Y = 554,331.9 N , X = 703,828.4 E	LTP (NAD27 NME) Y = 564,789.8 X = 703,096.7 LAT. = 32.550987 °N LONG. = 103.674206 °W BHL (NAD27 NME) Y = 564,789.8 X = 703,096.7 LAT. = 32.550987 °N LONG. = 103.674206 °W

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.3 ppg).

Intermediate #1 Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

Intermediate #2 Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.4 ppg).

Production Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C Casing	7 in	29.00 lb/ft (0.408 in)	VMS P110 EC
2012 API Spec 5CT Coupling O.D.			

VMS P110 EC	Material
	Grade
125,000	Minimum Yield Strength (psi)
135,000	Minimum Ultimate Strength (psi)

	Pipe Dimensions
7.000	Nominal Pipe Body O.D. (in)
6.184	Nominal Pipe Body I.D.(in)
0.408	Nominal Wall Thickness (in)
29.00	Nominal Weight (lbs/ft)
28.75	Plain End Weight (lbs/ft)
8.449	Nominal Pipe Body Area (sq in)

	Pipe Body Performance Properties
1,056,000	Minimum Pipe Body Yield Strength (lbs)
9,580	Minimum Collapse Pressure (psi)
12,750	Minimum Internal Yield Pressure (psi)
11,700	Hydrostatic Test Pressure (psi)

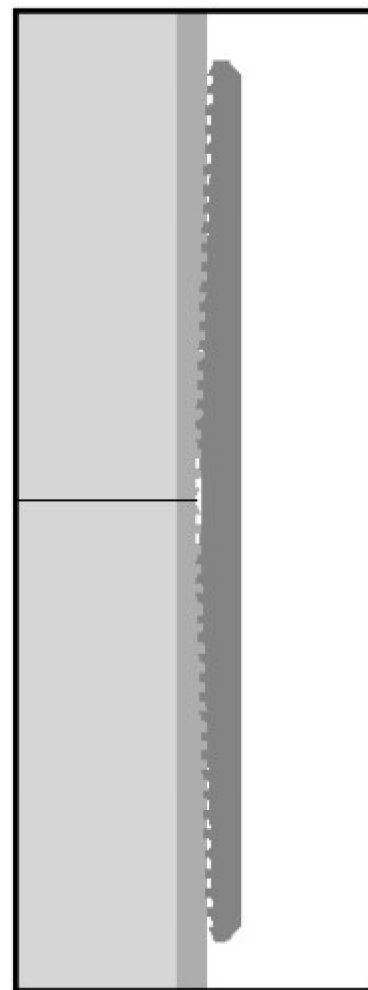
	Connection Dimensions
7.875	Connection O.D. (in)
6.184	Connection I.D. (in)
6.125	Connection Drift Diameter (in)
4.50	Make-up Loss (in)
8.449	Critical Area (sq in)
100.0	Joint Efficiency (%)

	Connection Performance Properties
1,056,000	Joint Strength (lbs)
26,010	Reference String Length (ft) 1.4 Design Factor
1,045,000	API Joint Strength (lbs)
528,000	Compression Rating (lbs)
9,580	API Collapse Pressure Rating (psi)
12,750	API Internal Pressure Resistance (psi)
40.9	Maximum Uniaxial Bend Rating [degrees/100 ft]

	Appoximated Field End Torque Values
26,800	Minimum Final Torque (ft-lbs)
31,300	Maximum Final Torque (ft-lbs)
35,800	Connection Yield Torque (ft-lbs)



VAM-USA
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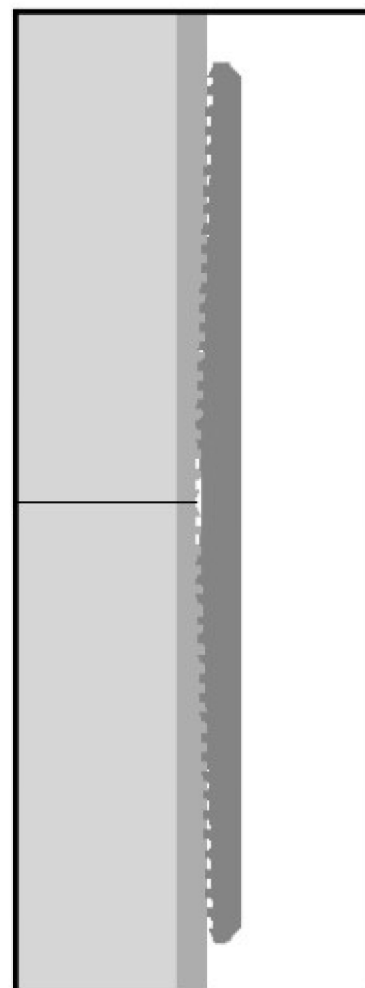
For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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**DWC Connection Data Notes:**

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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TEC-LOCK WEDGE

5.500" 20 LB/FT (.361"Wall) with 5.875" SPECIAL CLEARANCE OD
BEN P110 CY

Pipe Body Data

Nominal OD:	5.500	in
Nominal Wall:	.361	in
Nominal Weight:	20.00	lb/ft
Plain End Weight:	19.83	lb/ft
Material Grade:	P110 CY	
Mill/Specification:	BEN	
Yield Strength:	125,000	psi
Tensile Strength:	135,000	psi
Nominal ID:	4.778	in
API Drift Diameter:	4.653	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	729,000	lbf
Burst:	14,360	psi
Collapse:	13,010	psi

Connection Data

Standard OD:	5.875	in
Pin Bored ID:	4.778	in
Critical Section Area:	5.656	in ²
Tensile Efficiency:	97 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	707,000	lbf
Compressive Limit:	729,000	lbf
Internal Pressure Rating:	14,360	psi
External Pressure Rating:	13,010	psi
Maximum Bend:	101.2	°/100ft

Operational Data

Minimum Makeup Torque:	15,000	ft*lbf
Optimum Makeup Torque:	18,700	ft*lbf
Maximum Makeup Torque:	41,200	ft*lbf
Minimum Yield:	45,800	ft*lbf
Makeup Loss:	5.97	in

Notes Operational Torque is equivalent to the Maximum Make-Up Torque

Generated on Sep 03, 2019



Drill Plan**Gavilon Fed Com #706H**

- Matador respectfully requests the option to amend the well design of the Gavilon Fed Com #706H to make the following changes to the current APD.

Casing & Cement

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 1555	0 - 1555	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 3665	0 - 3665	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 5045	0 - 5045	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production Top	8.75	0 - 9999	0 - 9890	7	29	P-110	VAM DWC/C	1.125	1.125	1.8
Production Bottom	8.75	9999 - 20687	9890 - 10470	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h

- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed

- All non-API joint connections will be of like or greater quality and as run specification sheets will be on location for review

- Request option to run a full 5.5" production string, cement volumes will be adjusted accordingly.

- Request option to drill 8.5" hole throughout 5.5" production casing section. 7" casing will not be ran in 8.5" hole.

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Tail	3630	1.35	4902	14.8	100%	0	C	5% NaCl + LCM
Intermediate 1	Lead	2140	1.78	3812	13.5	50%	0	C	5% NaCl + LCM
	Tail	590	1.35	799	14.8	50%	2932	C	5% NaCl + LCM
Intermediate 2	Lead	1220	1.78	2173	13.5	50%	0	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	370	1.35	504	14.8	50%	4045	C	5% NaCl + LCM
Production	Lead	290	3.66	1059	10.3	25%	3762	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	2360	1.35	3184	13.2	15%	9599	A/C	Fluid Loss + Dispersant + Retarder + LCM

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 13-3/8" or 9-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

Drill Plan**Mud Program**

An electronic Pason mud monitoring system complying with Onshore Order #2 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	26	Spud Mud	0 - 1555	8.4 - 8.8	28-30	NC
Intermediate 1	17.5	Brine Water	1555 - 3665	9.5 - 10.2	28-32	NC
Intermediate 2	12.25	Fresh Water	3665 - 5045	8.4 - 8.6	28-30	NC
Production	8.75	OBM/Cut Brine	5045 - 20687	8.6 - 9.4	28-30	NC



Matador Resources

Lea County, NM (NAD27)

Gavilon Fed Com Pads (Grid)

Gavilon Fed Com 706H

Wellbore #1

Plan 1

Anticollision Report

28 March, 2022





Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference	Plan 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	0.00 to 20,686.73usft	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 500.00usft or Max. SF of 10	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	3/25/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,686.13	Plan 1 (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Gavilon Fed Com Pads (Grid)						
Galivan Federal 001 - Wellbore #1 - Actual	12,204.85	10,429.61	0.34	-325.58	0.001	No-Go Zone - Stop Drilling, (
Gavilon Fed Com 305H - Wellbore #1 - Plan 1	1,416.33	1,417.33	30.00	20.89	3.294	CC
Gavilon Fed Com 305H - Wellbore #1 - Plan 1	1,500.00	1,501.00	30.00	20.60	3.190	ES, SF
Gavilon Fed Com 306H - Wellbore #1 - Plan 1	2,983.86	2,984.55	74.28	59.16	4.911	CC
Gavilon Fed Com 306H - Wellbore #1 - Plan 1	9,369.92	9,397.54	128.06	57.16	1.806	Collision Risk Procedures Re
Gavilon Fed Com 403H - Wellbore #1 - Plan 1	18,200.00	17,313.84	2,800.90	2,516.81	9.859	CC
Gavilon Fed Com 403H - Wellbore #1 - Plan 1	20,686.73	19,795.49	2,800.91	2,427.39	7.499	ES, SF
Gavilon Fed Com 501H - Wellbore #1 - Plan 1	20,612.66	20,623.75	2,650.33	2,256.25	6.725	CC
Gavilon Fed Com 501H - Wellbore #1 - Plan 1	20,686.73	20,692.74	2,650.34	2,253.71	6.682	ES, SF
Gavilon Fed Com 505H - Wellbore #1 - Plan 1	2,258.57	2,265.95	66.51	54.27	5.435	CC, ES
Gavilon Fed Com 505H - Wellbore #1 - Plan 1	20,686.73	20,691.52	1,319.91	923.50	3.330	SF
Gavilon Fed Com 602H - Wellbore #1 - Actual	8,000.00	7,919.36	92.83	53.15	2.340	ES, SF
Gavilon Fed Com 602H - Wellbore #1 - Actual	8,000.71	7,920.04	92.83	53.15	2.340	CC
Gavilon Fed Com 603H - Wellbore #1 - Plan 1	1,415.99	1,417.99	30.01	20.90	3.295	CC
Gavilon Fed Com 603H - Wellbore #1 - Plan 1	1,500.00	1,501.99	30.01	20.60	3.190	ES, SF
Gavilon Fed Com 604H - Wellbore #1 - Plan 1	16,700.00	17,487.48	2,439.46	2,193.41	9.914	CC
Gavilon Fed Com 604H - Wellbore #1 - Plan 1	20,686.73	21,470.20	2,439.76	2,050.78	6.272	ES, SF
Gavilon Fed Com 704H - Wellbore #1 - Actual	6,571.01	6,431.00	420.21	381.37	10.819	CC, ES, SF
Gavilon Fed Com 704H - Wellbore #1 - Plan 4	9,234.33	9,115.88	238.92	186.95	4.598	CC, ES
Gavilon Fed Com 704H - Wellbore #1 - Plan 4	9,400.00	9,281.50	242.23	189.10	4.560	SF
Gavilon Fed Com 708H - Wellbore #1 - Plan 1	18,700.00	19,673.76	3,131.90	2,818.17	9.983	CC
Gavilon Fed Com 708H - Wellbore #1 - Plan 1	20,686.73	21,655.68	3,132.05	2,746.60	8.126	ES, SF
Tomahawk 28 Federal Com 001 - Wellbore #1 - Actual	19,134.34	10,375.91	1,320.08	937.22	3.448	CC, ES, SF

Offset Design:	Gavilon Fed Com Pads (Grid) - Galivan Federal 001 - Wellbore #1 - Actual											Offset Site Error:	0.00 usft
Survey Program:	305-INC-ONLY											Offset Well Error:	15.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
6,800.00	6,729.60	6,687.15	6,684.60	25.21	171.45	76.11	1,787.40	-1,352.21	1,887.27	1,695.99	191.28	9.867	
6,900.00	6,828.08	6,794.96	6,792.37	25.65	174.22	76.68	1,789.08	-1,352.21	1,884.76	1,690.41	194.35	9.698	
7,000.00	6,926.56	6,905.94	6,903.33	26.10	177.07	77.24	1,788.14	-1,352.21	1,879.95	1,682.45	197.49	9.519	
7,100.00	7,025.04	6,982.77	6,980.04	26.55	178.98	77.64	1,787.40	-1,352.21	1,875.26	1,675.53	199.74	9.389	
7,200.00	7,123.52	7,081.25	7,078.52	27.00	181.21	78.15	1,787.40	-1,352.21	1,871.56	1,669.28	202.28	9.252	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Galivan Federal 001 - Wellbore #1 - Actual													Offset Site Error:	0.00 usft
Survey Program:		305-INC-ONLY						Rule Assigned:				Offset Well Error:	15.00 usft	
Reference	Offset	Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,300.00	7,222.00	7,194.36	7,191.62	27.45	183.78	78.74	1,787.74	-1,352.21	1,868.41	1,663.26	205.15	9.108		
7,400.00	7,320.48	7,278.27	7,275.48	27.90	185.65	79.18	1,787.40	-1,352.21	1,864.63	1,657.29	207.34	8.993		
7,500.00	7,418.96	7,376.75	7,373.96	28.35	187.81	79.69	1,787.40	-1,352.21	1,861.40	1,651.58	209.82	8.871		
7,600.00	7,517.44	7,475.23	7,472.44	28.80	189.98	80.21	1,787.40	-1,352.21	1,858.33	1,646.03	212.30	8.753		
7,700.00	7,615.92	7,581.77	7,578.96	29.26	192.32	80.78	1,788.54	-1,352.21	1,856.55	1,641.60	214.95	8.637		
7,800.00	7,714.41	7,688.78	7,685.96	29.71	194.67	81.35	1,787.82	-1,352.21	1,853.14	1,635.53	217.61	8.516		
7,900.00	7,812.89	7,770.77	7,767.89	30.16	196.46	81.78	1,787.40	-1,352.21	1,850.05	1,630.33	219.72	8.420		
8,000.00	7,911.37	7,869.25	7,866.37	30.61	198.58	82.30	1,787.40	-1,352.21	1,847.61	1,625.45	222.16	8.317		
8,100.00	8,009.85	7,967.73	7,964.85	31.06	200.70	82.83	1,787.40	-1,352.21	1,845.33	1,620.74	224.59	8.216		
8,200.00	8,108.33	8,070.96	8,068.06	31.51	202.92	83.39	1,788.44	-1,352.21	1,844.25	1,617.12	227.13	8.120		
8,300.00	8,206.81	8,175.84	8,172.93	31.97	205.17	83.95	1,787.99	-1,352.21	1,841.87	1,612.17	229.69	8.019		
8,400.00	8,305.29	8,263.26	8,260.29	32.42	207.06	84.42	1,787.40	-1,352.21	1,839.46	1,607.55	231.91	7.932		
8,500.00	8,403.77	8,361.74	8,358.77	32.87	209.27	84.95	1,787.40	-1,352.21	1,837.82	1,603.38	234.44	7.839		
8,600.00	8,502.25	8,460.22	8,457.25	33.32	211.49	85.48	1,787.40	-1,352.21	1,836.35	1,599.38	236.97	7.749		
8,700.00	8,600.73	8,562.49	8,559.51	33.78	213.78	86.03	1,788.43	-1,352.21	1,836.06	1,596.47	239.59	7.663		
8,800.00	8,699.21	8,667.75	8,664.77	34.23	216.15	86.60	1,788.01	-1,352.21	1,834.53	1,592.26	242.27	7.572		
8,900.00	8,797.69	8,755.75	8,752.69	34.68	218.14	87.08	1,787.40	-1,352.21	1,832.92	1,588.32	244.60	7.494		
9,000.00	8,896.17	8,854.24	8,851.17	35.14	220.74	87.61	1,787.40	-1,352.21	1,832.10	1,584.57	247.53	7.402		
9,096.99	8,991.68	8,949.75	8,946.68	35.58	223.27	88.13	1,787.40	-1,352.21	1,831.46	1,581.09	250.37	7.315		
9,100.00	8,994.65	8,952.72	8,949.65	35.59	223.35	88.15	1,787.40	-1,352.21	1,831.45	1,580.99	250.46	7.312		
9,131.82	9,026.01	8,984.08	8,981.01	35.73	224.18	88.31	1,787.40	-1,352.21	1,831.28	1,579.90	251.38	7.285		
9,200.00	9,093.36	9,057.55	9,054.47	36.04	226.12	88.66	1,788.56	-1,352.21	1,832.15	1,578.63	253.53	7.227		
9,300.00	9,192.46	9,165.93	9,162.84	36.50	228.99	89.10	1,787.92	-1,352.21	1,831.30	1,574.65	256.65	7.135		
9,400.00	9,291.87	9,250.12	9,246.87	36.95	231.28	89.38	1,787.40	-1,352.21	1,830.57	1,571.39	259.18	7.063		
9,500.00	9,391.53	9,349.83	9,346.53	37.36	234.26	89.63	1,787.40	-1,352.21	1,830.50	1,568.16	262.34	6.978		
9,600.00	9,491.37	9,449.67	9,446.37	37.75	237.36	89.81	1,787.40	-1,352.21	1,830.47	1,564.89	265.57	6.892		
9,631.15	9,522.50	9,480.80	9,477.50	37.85	238.33	89.85	1,787.40	-1,352.21	1,830.46	1,563.89	266.57	6.867		
9,700.00	9,591.32	9,564.44	9,561.09	38.08	240.93	89.91	1,788.64	-1,352.21	1,831.76	1,562.54	269.22	6.804		
9,763.68	9,655.00	9,641.86	9,638.50	38.17	243.33	-1.95	1,787.73	-1,352.21	1,831.01	1,559.38	271.63	6.741		
9,800.00	9,691.32	9,686.03	9,682.64	38.17	244.70	-1.95	1,786.95	-1,352.21	1,830.37	1,557.38	272.99	6.705		
9,812.05	9,703.37	9,700.69	9,697.30	38.17	245.16	-1.95	1,786.65	-1,352.21	1,830.12	1,556.68	273.44	6.693		
9,900.00	9,791.32	9,749.90	9,746.32	38.19	247.18	-1.95	1,787.40	-1,352.21	1,830.46	1,554.92	275.54	6.643		
10,000.00	9,891.32	9,866.92	9,863.29	38.21	251.46	-1.95	1,788.69	-1,352.21	1,831.82	1,551.97	279.85	6.546		
10,098.68	9,990.00	10,003.80	10,000.08	38.23	256.47	-1.95	1,786.00	-1,352.21	1,829.89	1,545.10	284.79	6.425		
10,099.73	9,991.05	10,005.25	10,001.53	38.23	256.53	7.13	1,785.96	-1,352.21	1,829.86	1,545.02	284.84	6.424		
10,100.00	9,991.32	9,950.27	9,946.32	38.23	254.51	7.13	1,787.40	-1,352.21	1,830.46	1,547.51	282.95	6.469		
10,125.00	10,016.31	9,975.25	9,971.31	38.24	255.51	7.14	1,787.40	-1,352.21	1,829.74	1,545.78	283.96	6.444		
10,150.00	10,041.22	10,000.17	9,996.22	38.26	256.50	7.18	1,787.40	-1,352.21	1,827.73	1,542.76	284.97	6.414		
10,175.00	10,065.99	10,054.00	10,049.89	38.27	258.65	7.26	1,787.40	-1,352.21	1,824.65	1,537.55	287.10	6.355		
10,200.00	10,090.56	10,054.00	10,049.89	38.29	258.65	7.34	1,787.40	-1,352.21	1,819.84	1,532.67	287.17	6.337		
10,225.00	10,114.85	10,073.97	10,069.85	38.31	259.47	7.45	1,787.40	-1,352.21	1,813.98	1,525.96	288.02	6.298		
10,250.00	10,138.80	10,097.91	10,093.80	38.33	260.45	7.59	1,787.40	-1,352.21	1,806.87	1,517.83	289.04	6.251		
10,275.00	10,162.34	10,121.46	10,117.34	38.35	261.42	7.77	1,787.40	-1,352.21	1,798.53	1,508.48	290.05	6.201		
10,300.00	10,185.41	10,144.52	10,140.41	38.37	262.37	7.98	1,787.40	-1,352.21	1,788.98	1,497.94	291.04	6.147		
10,325.00	10,207.94	10,167.06	10,162.94	38.39	263.30	8.23	1,787.40	-1,352.21	1,778.25	1,486.24	292.00	6.090		
10,350.00	10,229.88	10,188.99	10,184.88	38.41	264.21	8.53	1,787.40	-1,352.21	1,766.36	1,473.41	292.95	6.030		
10,375.00	10,251.16	10,216.93	10,212.75	38.44	265.36	8.89	1,789.40	-1,352.21	1,755.36	1,461.22	294.15	5.968		
10,400.00	10,271.72	10,248.23	10,244.03	38.46	266.64	9.33	1,789.19	-1,352.21	1,741.13	1,445.66	295.47	5.893		
10,425.00	10,291.51	10,278.08	10,273.87	38.49	267.87	9.85	1,788.80	-1,352.21	1,725.74	1,429.01	296.73	5.816		
10,450.00	10,310.48	10,306.39	10,302.15	38.52	269.04	10.46	1,788.28	-1,352.21	1,709.25	1,411.33	297.91	5.737		
10,475.00	10,328.56	10,333.08	10,328.82	38.55	270.14	11.18	1,787.64	-1,352.21	1,691.72	1,392.69	299.03	5.657		
10,500.00	10,345.72	10,358.07	10,353.78	38.59	271.17	12.02	1,786.91	-1,352.21	1,673.22	1,373.14	300.07	5.576		

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Galivan Federal 001 - Wellbore #1 - Actual													Offset Site Error: 0.00 usft
Survey Program: 305-INC-ONLY													Offset Well Error: 15.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,525.00	10,361.91	10,381.30	10,376.98	38.63	272.13	13.03	1,786.13	-1,352.21	1,653.81	1,352.77	301.04	5.494	
10,550.00	10,377.07	10,336.34	10,332.07	38.67	270.27	13.47	1,787.40	-1,352.21	1,634.31	1,334.87	299.44	5.458	
10,562.40	10,384.20	10,343.82	10,339.20	38.69	270.59	14.05	1,787.40	-1,352.21	1,624.27	1,324.48	299.78	5.418	
10,575.00	10,391.18	10,350.80	10,346.18	38.72	270.89	13.83	1,787.40	-1,352.21	1,613.88	1,313.76	300.11	5.378	
10,600.00	10,404.22	10,363.84	10,359.22	38.78	271.45	13.46	1,787.40	-1,352.21	1,592.72	1,291.99	300.73	5.296	
10,625.00	10,416.17	10,375.78	10,371.17	38.84	271.96	13.15	1,787.40	-1,352.21	1,570.90	1,269.61	301.29	5.214	
10,650.00	10,426.99	10,386.60	10,381.99	38.90	272.43	12.90	1,787.40	-1,352.21	1,548.48	1,246.67	301.81	5.131	
10,675.00	10,436.64	10,396.26	10,391.64	38.98	272.84	12.70	1,787.40	-1,352.21	1,525.51	1,223.24	302.27	5.047	
10,700.00	10,445.11	10,404.73	10,400.11	39.06	273.21	12.55	1,787.40	-1,352.21	1,502.06	1,199.39	302.67	4.963	
10,725.00	10,452.37	10,411.99	10,407.37	39.15	273.52	12.45	1,787.40	-1,352.21	1,478.19	1,175.17	303.02	4.878	
10,750.00	10,458.40	10,418.02	10,413.40	39.24	273.78	12.39	1,787.40	-1,352.21	1,453.96	1,150.66	303.30	4.794	
10,775.00	10,463.19	10,422.80	10,418.19	39.35	273.99	12.38	1,787.40	-1,352.21	1,429.45	1,125.91	303.53	4.709	
10,800.00	10,466.71	10,426.33	10,421.71	39.47	274.14	12.42	1,787.40	-1,352.21	1,404.71	1,101.01	303.70	4.625	
10,825.00	10,468.97	10,428.59	10,423.97	39.59	274.24	12.56	1,787.40	-1,352.21	1,379.82	1,076.01	303.81	4.542	
10,850.00	10,469.95	10,429.57	10,424.95	39.73	274.28	13.43	1,787.40	-1,352.21	1,354.85	1,050.98	303.86	4.459	
10,856.73	10,470.00	10,429.61	10,425.00	39.76	274.28	90.00	1,787.40	-1,352.21	1,348.11	1,044.25	303.87	4.437	
10,900.00	10,470.00	10,429.61	10,425.00	40.02	274.28	90.00	1,787.40	-1,352.21	1,304.85	1,000.98	303.87	4.294	
11,000.00	10,470.00	10,429.61	10,425.00	40.69	274.28	90.00	1,787.40	-1,352.21	1,204.85	900.97	303.88	3.965	
11,100.00	10,470.00	10,429.61	10,425.00	41.46	274.28	90.00	1,787.40	-1,352.21	1,104.85	800.96	303.89	3.636	
11,200.00	10,470.00	10,429.61	10,425.00	42.32	274.28	90.00	1,787.40	-1,352.21	1,004.85	700.94	303.90	3.306	
11,300.00	10,470.00	10,429.61	10,425.00	43.25	274.28	90.00	1,787.40	-1,352.21	904.85	600.93	303.92	2.977	
11,400.00	10,470.00	10,429.61	10,425.00	44.24	274.28	90.00	1,787.40	-1,352.21	804.85	500.92	303.93	2.648	
11,500.00	10,470.00	10,429.61	10,425.00	45.29	274.28	90.00	1,787.40	-1,352.21	704.85	400.90	303.95	2.319	
11,600.00	10,470.00	10,429.61	10,425.00	46.39	274.28	90.00	1,787.40	-1,352.21	604.85	300.88	303.97	1.990 Collision Risk Procedures Req.	
11,700.00	10,470.00	10,429.61	10,425.00	47.53	274.28	90.00	1,787.40	-1,352.21	504.85	200.86	303.99	1.661 Collision Risk Procedures Req.	
11,800.00	10,470.00	10,429.61	10,425.00	48.72	274.28	90.00	1,787.40	-1,352.21	404.85	100.84	304.01	1.332 Collision Avoidance Req.	
11,900.00	10,470.00	10,429.61	10,425.00	49.94	274.28	90.00	1,787.40	-1,352.21	304.85	0.81	304.04	1.003 Collision Avoidance Req.	
12,000.00	10,470.00	10,429.61	10,425.00	51.20	274.28	90.00	1,787.40	-1,352.21	204.85	-99.22	304.07	0.674 No-Go Zone - Stop Drilling	
12,100.00	10,470.00	10,429.61	10,425.00	52.49	274.28	90.00	1,787.40	-1,352.21	104.85	-199.28	304.13	0.345 No-Go Zone - Stop Drilling	
12,200.00	10,470.00	10,429.61	10,425.00	53.81	274.28	90.00	1,787.40	-1,352.21	4.86	-300.90	305.76	0.016 No-Go Zone - Stop Drilling	
12,204.85	10,470.00	10,429.61	10,425.00	53.87	274.28	90.00	1,787.40	-1,352.21	0.34	-325.58	325.92	0.001 No-Go Zone - Stop Drilling, CC, ES, SF	
12,300.00	10,470.00	10,429.61	10,425.00	55.16	274.28	90.00	1,787.40	-1,352.21	95.15	-208.87	304.02	0.313 No-Go Zone - Stop Drilling	
12,400.00	10,470.00	10,429.61	10,425.00	56.53	274.28	90.00	1,787.40	-1,352.21	195.15	-108.94	304.09	0.642 No-Go Zone - Stop Drilling	
12,500.00	10,470.00	10,429.61	10,425.00	57.93	274.28	90.00	1,787.40	-1,352.21	295.15	-8.98	304.13	0.970 No-Go Zone - Stop Drilling	
12,600.00	10,470.00	10,429.61	10,425.00	59.36	274.28	90.00	1,787.40	-1,352.21	395.15	90.99	304.17	1.299 Collision Avoidance Req.	
12,700.00	10,470.00	10,429.61	10,425.00	60.80	274.28	90.00	1,787.40	-1,352.21	495.15	190.95	304.20	1.628 Collision Risk Procedures Req.	
12,800.00	10,470.00	10,429.61	10,425.00	62.27	274.28	90.00	1,787.40	-1,352.21	595.15	290.92	304.24	1.956 Collision Risk Procedures Req.	
12,900.00	10,470.00	10,429.61	10,425.00	63.76	274.28	90.00	1,787.40	-1,352.21	695.15	390.88	304.27	2.285	
13,000.00	10,470.00	10,429.61	10,425.00	65.26	274.28	90.00	1,787.40	-1,352.21	795.15	490.85	304.31	2.613	
13,100.00	10,470.00	10,429.61	10,425.00	66.78	274.28	90.00	1,787.40	-1,352.21	895.15	590.81	304.34	2.941	
13,200.00	10,470.00	10,429.61	10,425.00	68.32	274.28	90.00	1,787.40	-1,352.21	995.15	690.77	304.38	3.269	
13,300.00	10,470.00	10,429.61	10,425.00	69.88	274.28	90.00	1,787.40	-1,352.21	1,095.15	790.73	304.42	3.598	
13,400.00	10,470.00	10,429.61	10,425.00	71.45	274.28	90.00	1,787.40	-1,352.21	1,195.15	890.69	304.46	3.925	
13,500.00	10,470.00	10,429.61	10,425.00	73.03	274.28	90.00	1,787.40	-1,352.21	1,295.15	990.65	304.50	4.253	
13,600.00	10,470.00	10,429.61	10,425.00	74.63	274.28	90.00	1,787.40	-1,352.21	1,395.15	1,090.61	304.54	4.581	
13,700.00	10,470.00	10,429.61	10,425.00	76.24	274.28	90.00	1,787.40	-1,352.21	1,495.15	1,190.57	304.59	4.909	
13,800.00	10,470.00	10,429.61	10,425.00	77.87	274.28	90.00	1,787.40	-1,352.21	1,595.15	1,290.52	304.63	5.236	
13,900.00	10,470.00	10,429.61	10,425.00	79.50	274.28	90.00	1,787.40	-1,352.21	1,695.15	1,390.48	304.67	5.564	
14,000.00	10,470.00	10,429.61	10,425.00	81.14	274.28	90.00	1,787.40	-1,352.21	1,795.15	1,490.43	304.72	5.891	
14,100.00	10,470.00	10,429.61	10,425.00	82.80	274.28	90.00	1,787.40	-1,352.21	1,895.15	1,590.39	304.77	6.218	
14,200.00	10,470.00	10,429.61	10,425.00	84.46	274.28	90.00	1,787.40	-1,352.21	1,995.15	1,690.34	304.82	6.545	
14,300.00	10,470.00	10,429.61	10,425.00	86.14	274.28	90.00	1,787.40	-1,352.21	2,095.15	1,790.29	304.87	6.872	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Galivan Federal 001 - Wellbore #1 - Actual													Offset Site Error: 0.00 usft
Survey Program: 305-INC-ONLY													Offset Well Error: 15.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,400.00	10,470.00	10,429.61	10,425.00	87.82	274.28	90.00	1,787.40	-1,352.21	2,195.15	1,890.24	304.92	7.199	
14,500.00	10,470.00	10,429.61	10,425.00	89.51	274.28	90.00	1,787.40	-1,352.21	2,295.15	1,990.18	304.97	7.526	
14,600.00	10,470.00	10,429.61	10,425.00	91.21	274.28	90.00	1,787.40	-1,352.21	2,395.15	2,090.13	305.02	7.852	
14,700.00	10,470.00	10,429.61	10,425.00	92.91	274.28	90.00	1,787.40	-1,352.21	2,495.15	2,190.08	305.08	8.179	
14,800.00	10,470.00	10,429.61	10,425.00	94.63	274.28	90.00	1,787.40	-1,352.21	2,595.15	2,290.02	305.13	8.505	
14,900.00	10,470.00	10,429.61	10,425.00	96.35	274.28	90.00	1,787.40	-1,352.21	2,695.15	2,389.96	305.19	8.831	
15,000.00	10,470.00	10,429.61	10,425.00	98.07	274.28	90.00	1,787.40	-1,352.21	2,795.15	2,489.91	305.25	9.157	
15,100.00	10,470.00	10,429.61	10,425.00	99.81	274.28	90.00	1,787.40	-1,352.21	2,895.15	2,589.85	305.31	9.483	
15,200.00	10,470.00	10,429.61	10,425.00	101.55	274.28	90.00	1,787.40	-1,352.21	2,995.15	2,689.79	305.37	9.808	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 305H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	1.00	1.00	0.50	0.50	89.62	0.20	30.00	30.00				
100.00	100.00	101.00	101.00	0.64	0.65	89.62	0.20	30.00	30.00	28.71	1.29	23.200	
200.00	200.00	201.00	201.00	1.34	1.34	89.62	0.20	30.00	30.00	27.32	2.68	11.197	
300.00	300.00	301.00	301.00	1.81	1.81	89.62	0.20	30.00	30.00	26.38	3.62	8.285	
400.00	400.00	401.00	401.00	2.18	2.19	89.62	0.20	30.00	30.00	25.63	4.37	6.865	
500.00	500.00	501.00	501.00	2.51	2.51	89.62	0.20	30.00	30.00	24.99	5.01	5.984	
600.00	600.00	601.00	601.00	2.79	2.80	89.62	0.20	30.00	30.00	24.41	5.59	5.369	
700.00	700.00	701.00	701.00	3.06	3.06	89.62	0.20	30.00	30.00	23.89	6.11	4.907	
800.00	800.00	801.00	801.00	3.30	3.30	89.62	0.20	30.00	30.00	23.40	6.60	4.545	
900.00	900.00	901.00	901.00	3.53	3.53	89.62	0.20	30.00	30.00	22.94	7.06	4.250	
1,000.00	1,000.00	1,001.00	1,001.00	3.74	3.75	89.62	0.20	30.00	30.00	22.51	7.49	4.005	
1,100.00	1,100.00	1,101.00	1,101.00	3.95	3.95	89.62	0.20	30.00	30.00	22.10	7.90	3.795	
1,200.00	1,200.00	1,201.00	1,201.00	4.15	4.15	89.62	0.20	30.00	30.00	21.70	8.30	3.614	
1,300.00	1,300.00	1,301.00	1,301.00	4.34	4.34	89.62	0.20	30.00	30.00	21.32	8.68	3.456	
1,400.00	1,400.00	1,401.00	1,401.00	4.52	4.53	89.62	0.20	30.00	30.00	20.95	9.05	3.316	
1,416.33	1,416.33	1,417.33	1,417.33	4.55	4.55	89.62	0.20	30.00	30.00	20.89	9.11	3.294 CC	
1,500.00	1,500.00	1,501.00	1,501.00	4.70	4.70	89.62	0.20	30.00	30.00	20.60	9.40	3.190 ES, SF	
1,600.00	1,599.99	1,600.89	1,600.88	4.85	4.82	-176.94	-0.67	30.16	31.04	21.38	9.66	3.212	
1,700.00	1,699.96	1,700.67	1,700.63	5.01	4.97	-172.87	-3.26	30.64	34.27	24.32	9.96	3.442	
1,800.00	1,799.86	1,800.25	1,800.11	5.19	5.13	-167.61	-7.53	31.43	39.96	29.69	10.27	3.890	
1,900.00	1,899.68	1,899.51	1,899.19	5.39	5.31	-162.39	-13.49	32.54	48.30	37.70	10.60	4.555	
2,000.00	1,999.37	1,998.36	1,997.73	5.61	5.52	-157.88	-21.10	33.94	59.41	48.44	10.96	5.418	
2,100.00	2,098.90	2,096.69	2,095.62	5.85	5.74	-154.24	-30.32	35.65	73.27	61.92	11.35	6.455	
2,200.00	2,198.26	2,194.42	2,192.72	6.12	5.99	-151.39	-41.13	37.65	89.87	78.10	11.77	7.635	
2,300.00	2,297.40	2,292.53	2,290.10	6.40	6.25	-149.46	-52.89	39.83	108.67	96.45	12.22	8.889	
2,400.00	2,396.30	2,390.42	2,387.26	6.71	6.53	-148.47	-64.62	42.00	129.01	116.30	12.71	10.151	
2,500.04	2,494.97	2,488.05	2,484.16	7.03	6.83	-148.07	-76.33	44.17	150.83	137.61	13.22	11.408	
2,600.00	2,593.41	2,585.44	2,580.82	7.37	7.13	-148.01	-88.00	46.33	173.35	159.59	13.75	12.604	
2,700.00	2,691.89	2,682.87	2,677.52	7.72	7.44	-147.97	-99.68	48.50	195.88	181.57	14.31	13.692	
2,800.00	2,790.37	2,781.75	2,775.70	8.08	7.73	-147.98	-111.34	50.65	218.29	203.45	14.84	14.712	
2,900.00	2,888.85	2,883.40	2,876.85	8.45	8.13	-148.40	-121.17	52.48	239.34	223.88	15.46	15.486	
3,000.00	2,987.33	2,985.67	2,978.85	8.83	8.60	-149.23	-128.39	53.81	258.75	242.64	16.11	16.066	
3,100.00	3,085.81	3,088.39	3,081.47	9.21	9.05	-150.39	-132.93	54.65	276.58	259.85	16.73	16.528	
3,200.00	3,184.30	3,191.44	3,184.50	9.61	9.24	-151.85	-134.76	54.99	292.92	275.69	17.23	17.003	
3,300.00	3,282.78	3,290.72	3,283.78	10.00	9.37	-153.38	-134.80	55.00	308.41	290.74	17.68	17.446	
3,400.00	3,381.26	3,389.20	3,382.26	10.40	9.45	-154.75	-134.80	55.00	324.08	305.95	18.13	17.876	
3,500.00	3,479.74	3,487.68	3,480.74	10.81	9.53	-156.00	-134.80	55.00	339.91	321.31	18.59	18.283	
3,600.00	3,578.22	3,586.16	3,579.22	11.22	9.60	-157.13	-134.80	55.00	355.88	336.81	19.06	18.669	
3,700.00	3,676.70	3,684.64	3,677.70	11.63	9.68	-158.17	-134.80	55.00	371.97	352.43	19.54	19.036	
3,800.00	3,775.18	3,783.13	3,776.18	12.05	9.76	-159.12	-134.80	55.00	388.18	368.15	20.03	19.384	
3,900.00	3,873.66	3,881.61	3,874.66	12.47	9.83	-159.99	-134.80	55.00	404.48	383.97	20.52	19.715	
4,000.00	3,972.14	3,980.09	3,973.14	12.89	9.91	-160.80	-134.80	55.00	420.87	399.86	21.01	20.029	
4,100.00	4,070.62	4,078.57	4,071.62	13.32	9.99	-161.55	-134.80	55.00	437.33	415.82	21.51	20.329	
4,200.00	4,169.10	4,177.05	4,170.10	13.74	10.07	-162.24	-134.80	55.00	453.86	431.85	22.02	20.614	
4,300.00	4,267.58	4,275.53	4,268.58	14.17	10.14	-162.89	-134.80	55.00	470.45	447.93	22.52	20.886	
4,400.00	4,366.06	4,374.01	4,367.06	14.60	10.22	-163.49	-134.80	55.00	487.10	464.06	23.03	21.146	
4,500.00	4,464.54	4,472.49	4,465.54	15.03	10.30	-164.05	-134.80	55.00	503.79	480.24	23.55	21.394	
4,600.00	4,563.02	4,570.97	4,564.02	15.46	10.38	-164.57	-134.80	55.00	520.53	496.46	24.06	21.631	
4,700.00	4,661.51	4,669.45	4,662.51	15.90	10.45	-165.06	-134.80	55.00	537.30	512.72	24.58	21.858	
4,800.00	4,759.99	4,767.93	4,760.99	16.33	10.53	-165.53	-134.80	55.00	554.12	529.02	25.10	22.075	
4,900.00	4,858.47	4,866.41	4,859.47	16.77	10.61	-165.96	-134.80	55.00	570.96	545.34	25.62	22.283	
5,000.00	4,956.95	4,964.89	4,957.95	17.21	10.69	-166.37	-134.80	55.00	587.84	561.69	26.15	22.483	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 305H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,055.43	5,063.37	5,056.43	17.65	10.77	-166.76	-134.80	55.00	604.74	578.07	26.67	22.675	
5,200.00	5,153.91	5,161.85	5,154.91	18.09	10.84	-167.13	-134.80	55.00	621.67	594.48	27.20	22.859	
5,300.00	5,252.39	5,260.33	5,253.39	18.53	10.92	-167.47	-134.80	55.00	638.63	610.90	27.72	23.036	
5,400.00	5,350.87	5,358.82	5,351.87	18.97	11.00	-167.80	-134.80	55.00	655.60	627.35	28.25	23.207	
5,500.00	5,449.35	5,457.30	5,450.35	19.41	11.08	-168.11	-134.80	55.00	672.60	643.82	28.78	23.371	
5,600.00	5,547.83	5,555.78	5,548.83	19.85	11.15	-168.41	-134.80	55.00	689.61	660.30	29.31	23.529	
5,700.00	5,646.31	5,654.26	5,647.31	20.30	11.23	-168.69	-134.80	55.00	706.64	676.80	29.84	23.681	
5,800.00	5,744.79	5,752.74	5,745.79	20.74	11.31	-168.96	-134.80	55.00	723.69	693.32	30.37	23.829	
5,900.00	5,843.27	5,851.22	5,844.27	21.18	11.39	-169.22	-134.80	55.00	740.75	709.84	30.90	23.970	
6,000.00	5,941.75	5,949.70	5,942.75	21.63	11.47	-169.47	-134.80	55.00	757.82	726.39	31.43	24.108	
6,100.00	6,040.23	6,048.18	6,041.23	22.08	11.55	-169.70	-134.80	55.00	774.91	742.94	31.97	24.240	
6,200.00	6,138.71	6,146.66	6,139.71	22.52	11.62	-169.92	-134.80	55.00	792.01	759.51	32.50	24.368	
6,300.00	6,237.20	6,245.14	6,238.20	22.97	11.70	-170.14	-134.80	55.00	809.12	776.09	33.04	24.492	
6,400.00	6,335.68	6,343.62	6,336.68	23.41	11.78	-170.35	-134.80	55.00	826.24	792.67	33.57	24.612	
6,500.00	6,434.16	6,442.10	6,435.16	23.86	11.86	-170.54	-134.80	55.00	843.37	809.27	34.10	24.729	
6,600.00	6,532.64	6,540.58	6,533.64	24.31	11.94	-170.73	-134.80	55.00	860.52	825.88	34.64	24.842	
6,700.00	6,631.12	6,639.06	6,632.12	24.76	12.02	-170.92	-134.80	55.00	877.67	842.49	35.18	24.951	
6,800.00	6,729.60	6,737.54	6,730.60	25.21	12.09	-171.09	-134.80	55.00	894.82	859.11	35.71	25.057	
6,900.00	6,828.08	6,836.03	6,829.08	25.65	12.17	-171.26	-134.80	55.00	911.99	875.74	36.25	25.160	
7,000.00	6,926.56	6,934.51	6,927.56	26.10	12.25	-171.42	-134.80	55.00	929.16	892.38	36.78	25.260	
7,100.00	7,025.04	7,032.99	7,026.04	26.55	12.33	-171.58	-134.80	55.00	946.34	909.02	37.32	25.357	
7,200.00	7,123.52	7,131.47	7,124.52	27.00	12.41	-171.73	-134.80	55.00	963.53	925.67	37.86	25.451	
7,300.00	7,222.00	7,229.95	7,223.00	27.45	12.49	-171.88	-134.80	55.00	980.72	942.33	38.40	25.542	
7,400.00	7,320.48	7,328.43	7,321.48	27.90	12.56	-172.02	-134.80	55.00	997.92	958.99	38.93	25.632	
15,300.00	10,470.00	14,401.69	9,570.00	103.29	94.88	55.68	4,891.24	-53.19	1,598.11	1,435.96	162.16	9.855	
15,400.00	10,470.00	14,501.69	9,570.00	105.04	96.78	55.68	4,991.24	-53.86	1,598.11	1,432.82	165.29	9.668	
15,500.00	10,470.00	14,601.69	9,570.00	106.80	98.68	55.68	5,091.24	-54.52	1,598.11	1,429.68	168.43	9.488	
15,600.00	10,470.00	14,701.69	9,570.00	108.56	100.58	55.68	5,191.23	-55.18	1,598.11	1,426.54	171.58	9.314	
15,700.00	10,470.00	14,801.69	9,570.00	110.32	102.48	55.68	5,291.23	-55.85	1,598.11	1,423.38	174.73	9.146	
15,800.00	10,470.00	14,901.69	9,570.00	112.09	104.38	55.68	5,391.23	-56.51	1,598.11	1,420.23	177.88	8.984	
15,900.00	10,470.00	15,001.69	9,570.00	113.86	106.28	55.68	5,491.23	-57.17	1,598.11	1,417.07	181.04	8.827	
16,000.00	10,470.00	15,101.69	9,570.00	115.64	108.18	55.68	5,591.22	-57.83	1,598.11	1,413.90	184.21	8.676	
16,100.00	10,470.00	15,201.69	9,570.00	117.42	110.08	55.68	5,691.22	-58.50	1,598.11	1,410.74	187.38	8.529	
16,200.00	10,470.00	15,301.69	9,570.00	119.21	111.98	55.68	5,791.22	-59.16	1,598.11	1,407.56	190.55	8.387	
16,300.00	10,470.00	15,401.69	9,570.00	121.00	113.88	55.68	5,891.22	-59.82	1,598.11	1,404.39	193.73	8.249	
16,400.00	10,470.00	15,501.69	9,570.00	122.79	115.79	55.68	5,991.22	-60.49	1,598.11	1,401.21	196.91	8.116	
16,500.00	10,470.00	15,601.69	9,570.00	124.59	117.69	55.68	6,091.21	-61.15	1,598.11	1,398.02	200.09	7.987	
16,600.00	10,470.00	15,701.69	9,570.00	126.39	119.59	55.68	6,191.21	-61.81	1,598.11	1,394.84	203.28	7.862	
16,700.00	10,470.00	15,801.69	9,570.00	128.19	121.50	55.68	6,291.21	-62.48	1,598.11	1,391.65	206.46	7.740	
16,800.00	10,470.00	15,901.69	9,570.00	130.00	123.40	55.68	6,391.21	-63.14	1,598.11	1,388.46	209.66	7.623	
16,900.00	10,470.00	16,001.69	9,570.00	131.81	125.31	55.68	6,491.20	-63.80	1,598.11	1,385.26	212.85	7.508	
17,000.00	10,470.00	16,101.69	9,570.00	133.62	127.21	55.68	6,591.20	-64.47	1,598.11	1,382.06	216.05	7.397	
17,100.00	10,470.00	16,201.69	9,570.00	135.43	129.12	55.68	6,691.20	-65.13	1,598.11	1,378.86	219.25	7.289	
17,200.00	10,470.00	16,301.69	9,570.00	137.25	131.02	55.68	6,791.20	-65.79	1,598.11	1,375.66	222.45	7.184	
17,300.00	10,470.00	16,401.69	9,570.00	139.07	132.93	55.68	6,891.20	-66.46	1,598.11	1,372.45	225.66	7.082	
17,400.00	10,470.00	16,501.69	9,570.00	140.89	134.83	55.68	6,991.19	-67.12	1,598.11	1,369.25	228.87	6.983	
17,500.00	10,470.00	16,601.69	9,570.00	142.71	136.74	55.68	7,091.19	-67.78	1,598.11	1,366.04	232.08	6.886	
17,600.00	10,470.00	16,701.70	9,570.00	144.54	138.64	55.68	7,191.19	-68.45	1,598.11	1,362.83	235.29	6.792	
17,700.00	10,470.00	16,801.70	9,570.00	146.37	140.55	55.68	7,291.19	-69.11	1,598.11	1,359.61	238.50	6.701	
17,800.00	10,470.00	16,901.70	9,570.00	148.20	142.46	55.68	7,391.19	-69.77	1,598.11	1,356.40	241.72	6.611	
17,900.00	10,470.00	17,001.70	9,570.00	150.03	144.36	55.68	7,491.18	-70.44	1,598.11	1,353.18	244.93	6.525	
18,000.00	10,470.00	17,101.70	9,570.00	151.86	146.27	55.68	7,591.18	-71.10	1,598.11	1,349.96	248.15	6.440	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 305H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,100.00	10,470.00	17,201.70	9,570.00	153.70	148.18	55.68	7,691.18	-71.76	1,598.11	1,346.74	251.38	6.357	
18,200.00	10,470.00	17,301.70	9,570.00	155.54	150.09	55.68	7,791.18	-72.43	1,598.11	1,343.52	254.60	6.277	
18,300.00	10,470.00	17,401.70	9,570.00	157.38	151.99	55.68	7,891.17	-73.09	1,598.11	1,340.29	257.82	6.199	
18,400.00	10,470.00	17,501.70	9,570.00	159.22	153.90	55.68	7,991.17	-73.75	1,598.11	1,337.07	261.05	6.122	
18,500.00	10,470.00	17,601.70	9,570.00	161.06	155.81	55.68	8,091.17	-74.42	1,598.11	1,333.84	264.27	6.047	
18,600.00	10,470.00	17,701.70	9,570.00	162.91	157.72	55.68	8,191.17	-75.08	1,598.11	1,330.61	267.50	5.974	
18,700.00	10,470.00	17,801.70	9,570.00	164.75	159.63	55.68	8,291.17	-75.74	1,598.11	1,327.38	270.73	5.903	
18,800.00	10,470.00	17,901.70	9,570.00	166.60	161.53	55.68	8,391.16	-76.41	1,598.11	1,324.15	273.96	5.833	
18,900.00	10,470.00	18,001.70	9,570.00	168.45	163.44	55.68	8,491.16	-77.07	1,598.11	1,320.92	277.20	5.765	
19,000.00	10,470.00	18,101.70	9,570.00	170.30	165.35	55.68	8,591.16	-77.73	1,598.11	1,317.68	280.43	5.699	
19,100.00	10,470.00	18,201.70	9,570.00	172.15	167.26	55.68	8,691.16	-78.39	1,598.11	1,314.45	283.67	5.634	
19,200.00	10,470.00	18,301.70	9,570.00	174.01	169.17	55.68	8,791.15	-79.06	1,598.11	1,311.21	286.90	5.570	
19,300.00	10,470.00	18,401.70	9,570.00	175.86	171.08	55.68	8,891.15	-79.72	1,598.11	1,307.98	290.14	5.508	
19,400.00	10,470.00	18,501.70	9,570.00	177.71	172.99	55.68	8,991.15	-80.38	1,598.11	1,304.74	293.38	5.447	
19,500.00	10,470.00	18,601.70	9,570.00	179.57	174.90	55.68	9,091.15	-81.05	1,598.11	1,301.50	296.62	5.388	
19,600.00	10,470.00	18,701.70	9,570.00	181.43	176.81	55.68	9,191.15	-81.71	1,598.11	1,298.26	299.86	5.330	
19,700.00	10,470.00	18,801.70	9,570.00	183.29	178.72	55.68	9,291.14	-82.37	1,598.11	1,295.02	303.10	5.273	
19,800.00	10,470.00	18,901.70	9,570.00	185.15	180.62	55.68	9,391.14	-83.04	1,598.11	1,291.77	306.34	5.217	
19,900.00	10,470.00	19,001.70	9,570.00	187.01	182.53	55.68	9,491.14	-83.70	1,598.11	1,288.53	309.58	5.162	
20,000.00	10,470.00	19,101.70	9,570.00	188.87	184.44	55.68	9,591.14	-84.36	1,598.11	1,285.29	312.83	5.109	
20,100.00	10,470.00	19,201.70	9,570.00	190.74	186.35	55.68	9,691.13	-85.03	1,598.11	1,282.04	316.07	5.056	
20,200.00	10,470.00	19,301.70	9,570.00	192.60	188.26	55.68	9,791.13	-85.69	1,598.11	1,278.80	319.32	5.005	
20,300.00	10,470.00	19,401.70	9,570.00	194.46	190.17	55.68	9,891.13	-86.35	1,598.11	1,275.55	322.56	4.954	
20,400.00	10,470.00	19,501.70	9,570.00	196.33	192.08	55.68	9,991.13	-87.02	1,598.11	1,272.30	325.81	4.905	
20,500.00	10,470.00	19,601.70	9,570.00	198.20	193.99	55.68	10,091.13	-87.68	1,598.11	1,269.06	329.06	4.857	
20,600.00	10,470.00	19,701.70	9,570.00	200.07	195.90	55.68	10,191.12	-88.34	1,598.11	1,265.81	332.30	4.809	
20,656.87	10,470.00	19,758.57	9,570.00	201.06	196.99	55.68	10,248.00	-88.72	1,598.11	1,264.05	334.06	4.784	
20,686.73	10,470.00	19,785.67	9,570.00	201.58	197.51	55.68	10,275.10	-88.90	1,598.12	1,263.21	334.90	4.772	



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 306H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft		
Survey Program:		0-MWD+IGRF		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error: 0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.50	0.50	-0.36	80.00	-0.50	80.00						
100.00	100.00	100.00	100.00	0.64	0.64	-0.36	80.00	-0.50	80.00	78.71	1.29	62.122			
200.00	200.00	200.00	200.00	1.34	1.34	-0.36	80.00	-0.50	80.00	77.33	2.67	29.911			
300.00	300.00	300.00	300.00	1.81	1.81	-0.36	80.00	-0.50	80.00	76.38	3.62	22.116			
400.00	400.00	400.00	400.00	2.18	2.18	-0.36	80.00	-0.50	80.00	75.63	4.37	18.320			
500.00	500.00	500.00	500.00	2.51	2.51	-0.36	80.00	-0.50	80.00	74.99	5.01	15.966			
600.00	600.00	600.00	600.00	2.79	2.79	-0.36	80.00	-0.50	80.00	74.42	5.59	14.323			
700.00	700.00	700.00	700.00	3.06	3.06	-0.36	80.00	-0.50	80.00	73.89	6.11	13.092			
800.00	800.00	800.00	800.00	3.30	3.30	-0.36	80.00	-0.50	80.00	73.40	6.60	12.124			
900.00	900.00	900.00	900.00	3.53	3.53	-0.36	80.00	-0.50	80.00	72.95	7.06	11.338			
1,000.00	1,000.00	1,000.00	1,000.00	3.74	3.74	-0.36	80.00	-0.50	80.00	72.51	7.49	10.682			
1,100.00	1,100.00	1,100.00	1,100.00	3.95	3.95	-0.36	80.00	-0.50	80.00	72.10	7.90	10.123			
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	-0.36	80.00	-0.50	80.00	71.70	8.30	9.641			
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	-0.36	80.00	-0.50	80.00	71.32	8.68	9.218			
1,400.00	1,400.00	1,400.00	1,400.00	4.52	4.52	-0.36	80.00	-0.50	80.00	70.95	9.05	8.843			
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	-0.36	80.00	-0.50	80.00	70.60	9.40	8.508			
1,600.00	1,599.99	1,600.09	1,600.08	4.85	4.85	91.51	79.94	-1.37	79.97	70.28	9.69	8.254			
1,700.00	1,699.96	1,700.18	1,700.14	5.01	5.01	91.51	79.76	-3.99	79.87	69.88	9.99	7.996			
1,800.00	1,799.86	1,800.27	1,800.13	5.19	5.19	91.51	79.45	-8.35	79.71	69.42	10.29	7.749			
1,900.00	1,899.68	1,900.35	1,900.03	5.39	5.39	91.52	79.03	-14.45	79.48	68.90	10.58	7.510			
2,000.00	1,999.37	2,000.44	1,999.80	5.61	5.61	91.53	78.48	-22.29	79.19	68.30	10.89	7.274			
2,100.00	2,098.90	2,100.53	2,099.43	5.85	5.85	91.54	77.81	-31.87	78.84	67.64	11.20	7.039			
2,200.00	2,198.26	2,200.61	2,198.87	6.12	6.11	91.55	77.02	-43.18	78.42	66.89	11.53	6.802			
2,300.00	2,297.40	2,300.70	2,298.10	6.40	6.40	91.56	76.11	-56.22	77.93	66.05	11.88	6.561			
2,400.00	2,396.30	2,400.79	2,397.08	6.71	6.70	91.57	75.08	-70.99	77.38	65.13	12.25	6.315			
2,500.04	2,494.97	2,500.91	2,495.83	7.03	7.03	91.59	73.93	-87.49	76.77	64.10	12.66	6.062			
2,600.00	2,593.41	2,600.94	2,594.18	7.37	7.37	90.95	72.66	-105.69	76.07	62.96	13.11	5.803			
2,700.00	2,691.89	2,700.96	2,692.18	7.72	7.73	88.96	71.27	-125.60	75.33	61.75	13.59	5.545			
2,800.00	2,790.37	2,800.87	2,789.77	8.08	8.06	85.78	69.78	-146.97	74.73	60.68	14.05	5.318			
2,900.00	2,888.85	2,900.77	2,887.31	8.45	8.43	82.39	68.27	-168.54	74.38	59.77	14.61	5.090			
2,983.86	2,971.44	2,984.55	2,969.10	8.77	8.76	79.54	67.01	-186.64	74.28	59.16	15.12	4.911	CC		
3,000.00	2,987.33	3,000.67	2,984.84	8.83	8.83	78.99	66.77	-190.12	74.29	59.06	15.23	4.879			
3,100.00	3,085.81	3,100.58	3,082.37	9.21	9.23	75.58	65.26	-211.69	74.46	58.57	15.89	4.687			
3,200.00	3,184.30	3,200.48	3,179.90	9.61	9.64	72.21	63.76	-233.27	74.90	58.30	16.60	4.512			
3,300.00	3,282.78	3,300.38	3,277.44	10.00	10.05	68.88	62.25	-254.84	75.59	58.23	17.35	4.356			
3,400.00	3,381.26	3,400.28	3,374.97	10.40	10.47	65.63	60.75	-276.41	76.53	58.38	18.16	4.215			
3,500.00	3,479.74	3,500.19	3,472.50	10.81	10.90	62.47	59.24	-297.99	77.71	58.72	19.00	4.091			
3,600.00	3,578.22	3,600.09	3,570.04	11.22	11.33	59.40	57.73	-319.56	79.13	59.25	19.88	3.981			
3,700.00	3,676.70	3,699.99	3,667.57	11.63	11.76	56.46	56.23	-341.14	80.76	59.97	20.79	3.885			
3,800.00	3,775.18	3,799.89	3,765.10	12.05	12.20	53.64	54.72	-362.71	82.59	60.87	21.73	3.802			
3,900.00	3,873.66	3,899.79	3,862.64	12.47	12.64	50.94	53.22	-384.28	84.62	61.94	22.68	3.730			
4,000.00	3,972.14	3,999.70	3,960.17	12.89	13.08	48.38	51.71	-405.86	86.83	63.17	23.66	3.670			
4,100.00	4,070.62	4,099.60	4,057.70	13.32	13.53	45.95	50.21	-427.43	89.20	64.55	24.65	3.618			
4,200.00	4,169.10	4,199.50	4,155.24	13.74	13.98	43.65	48.70	-449.01	91.72	66.07	25.65	3.576			
4,300.00	4,267.58	4,299.40	4,252.77	14.17	14.43	41.47	47.20	-470.58	94.38	67.73	26.66	3.541			
4,400.00	4,366.06	4,399.30	4,350.30	14.60	14.88	39.42	45.69	-492.15	97.17	69.51	27.67	3.512			
4,500.00	4,464.54	4,499.21	4,447.84	15.03	15.33	37.48	44.18	-513.73	100.08	71.40	28.68	3.490			
4,600.00	4,563.02	4,599.11	4,545.37	15.46	15.79	35.66	42.68	-535.30	103.10	73.41	29.69	3.472			
4,700.00	4,661.51	4,699.01	4,642.90	15.90	16.24	33.94	41.17	-556.88	106.22	75.51	30.71	3.459			
4,800.00	4,759.99	4,798.91	4,740.44	16.33	16.70	32.32	39.67	-578.45	109.42	77.70	31.72	3.450			
4,900.00	4,858.47	4,898.81	4,837.97	16.77	17.16	30.79	38.16	-600.02	112.71	79.98	32.73	3.444			
5,000.00	4,956.95	4,998.72	4,935.50	17.21	17.62	29.35	36.66	-621.60	116.07	82.34	33.74	3.441			

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 306H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,055.43	5,098.62	5,033.04	17.65	18.08	28.00	35.15	-643.17	119.51	84.77	34.74	3.440	
5,200.00	5,153.91	5,198.52	5,130.57	18.09	18.54	26.71	33.65	-664.75	123.00	87.26	35.74	3.441	
5,300.00	5,252.39	5,298.42	5,228.10	18.53	19.01	25.50	32.14	-686.32	126.56	89.82	36.74	3.444	
5,400.00	5,350.87	5,398.33	5,325.64	18.97	19.47	24.36	30.64	-707.89	130.17	92.43	37.74	3.449	
5,500.00	5,449.35	5,498.23	5,423.17	19.41	19.93	23.28	29.13	-729.47	133.82	95.09	38.73	3.455	
5,600.00	5,547.83	5,598.13	5,520.70	19.85	20.40	22.26	27.62	-751.04	137.52	97.80	39.72	3.462	
5,700.00	5,646.31	5,698.03	5,618.23	20.30	20.86	21.29	26.12	-772.62	141.27	100.55	40.71	3.470	
5,800.00	5,744.79	5,797.93	5,715.77	20.74	21.33	20.37	24.61	-794.19	145.05	103.35	41.70	3.479	
5,900.00	5,843.27	5,897.84	5,813.30	21.18	21.80	19.49	23.11	-815.76	148.87	106.18	42.68	3.488	
6,000.00	5,941.75	5,997.74	5,910.83	21.63	22.27	18.67	21.60	-837.34	152.71	109.05	43.66	3.498	
6,100.00	6,040.23	6,097.64	6,008.37	22.08	22.73	17.88	20.10	-858.91	156.59	111.95	44.64	3.508	
6,200.00	6,138.71	6,197.54	6,105.90	22.52	23.20	17.13	18.59	-880.49	160.50	114.88	45.62	3.518	
6,300.00	6,237.20	6,297.44	6,203.43	22.97	23.67	16.41	17.09	-902.06	164.44	117.84	46.59	3.529	
6,400.00	6,335.68	6,397.35	6,300.97	23.41	24.14	15.73	15.58	-923.63	168.40	120.83	47.57	3.540	
6,500.00	6,434.16	6,497.25	6,398.50	23.86	24.61	15.08	14.07	-945.21	172.38	123.84	48.54	3.551	
6,600.00	6,532.64	6,597.15	6,496.03	24.31	25.08	14.46	12.57	-966.78	176.38	126.87	49.51	3.563	
6,700.00	6,631.12	6,697.05	6,593.57	24.76	25.55	13.87	11.06	-988.36	180.40	129.92	50.48	3.574	
6,800.00	6,729.60	6,796.95	6,691.10	25.21	26.03	13.31	9.56	-1,009.93	184.44	133.00	51.44	3.585	
6,900.00	6,828.08	6,896.86	6,788.63	25.65	26.50	12.76	8.05	-1,031.51	188.50	136.09	52.41	3.597	
7,000.00	6,926.56	6,996.76	6,886.17	26.10	26.97	12.25	6.55	-1,053.08	192.57	139.20	53.37	3.608	
7,100.00	7,025.04	7,096.66	6,983.70	26.55	27.44	11.75	5.04	-1,074.65	196.66	142.32	54.34	3.619	
7,200.00	7,123.52	7,196.56	7,081.23	27.00	27.91	11.27	3.54	-1,096.23	200.77	145.47	55.30	3.630	
7,300.00	7,222.00	7,296.47	7,178.77	27.45	28.39	10.81	2.03	-1,117.80	204.88	148.62	56.26	3.642	
7,400.00	7,320.48	7,396.37	7,276.30	27.90	28.86	10.37	0.52	-1,139.38	209.01	151.79	57.22	3.653	
7,500.00	7,418.96	7,496.27	7,373.83	28.35	29.33	9.95	-0.98	-1,160.95	213.15	154.97	58.18	3.664	
7,600.00	7,517.44	7,596.17	7,471.37	28.80	29.81	9.54	-2.49	-1,182.52	217.30	158.16	59.14	3.674	
7,700.00	7,615.92	7,696.07	7,568.90	29.26	30.28	9.15	-3.99	-1,204.10	221.47	161.37	60.10	3.685	
7,800.00	7,714.41	7,795.98	7,666.43	29.71	30.76	8.77	-5.50	-1,225.67	225.64	164.58	61.05	3.696	
7,900.00	7,812.89	7,895.88	7,763.96	30.16	31.23	8.41	-7.00	-1,247.25	229.82	167.81	62.01	3.706	
8,000.00	7,911.37	7,995.78	7,861.50	30.61	31.71	8.06	-8.51	-1,268.82	234.01	171.04	62.97	3.716	
8,100.00	8,009.85	8,095.68	7,959.03	31.06	32.18	7.72	-10.01	-1,290.39	238.21	174.29	63.92	3.727	
8,200.00	8,108.33	8,199.24	8,060.22	31.51	32.66	7.40	-11.54	-1,312.32	242.01	177.10	64.90	3.729	
8,300.00	8,206.81	8,305.91	8,165.00	31.97	33.18	7.18	-12.94	-1,332.31	243.33	177.44	65.90	3.693	
8,400.00	8,305.29	8,412.59	8,270.30	32.42	33.69	7.08	-14.13	-1,349.37	241.91	175.07	66.84	3.619	
8,500.00	8,403.77	8,519.11	8,375.87	32.87	34.19	7.08	-15.11	-1,363.47	237.73	170.01	67.71	3.511	
8,600.00	8,502.25	8,625.30	8,481.47	33.32	34.66	7.21	-15.89	-1,374.60	230.80	162.29	68.51	3.369	
8,700.00	8,600.73	8,731.00	8,586.85	33.78	35.09	7.46	-16.46	-1,382.77	221.16	151.93	69.22	3.195	
8,800.00	8,699.21	8,836.06	8,691.77	34.23	35.48	7.88	-16.83	-1,388.00	208.81	138.97	69.84	2.990	
8,900.00	8,797.69	8,940.32	8,796.00	34.68	35.76	8.50	-16.99	-1,390.35	193.80	123.51	70.29	2.757	
9,000.00	8,896.17	9,040.49	8,896.17	35.14	35.82	9.34	-17.00	-1,390.50	176.78	106.12	70.66	2.502	
9,096.99	8,991.68	9,136.00	8,991.68	35.58	35.84	10.31	-17.00	-1,390.50	160.18	89.13	71.05	2.254	
9,100.00	8,994.65	9,138.97	8,994.65	35.59	35.84	10.35	-17.00	-1,390.50	159.67	88.60	71.06	2.247	
9,200.00	9,093.36	9,237.67	9,093.35	36.04	35.86	11.45	-16.99	-1,390.50	143.95	72.51	71.44	2.015	
9,300.00	9,192.46	9,334.37	9,189.32	36.50	35.80	17.09	-6.67	-1,388.92	131.63	60.11	71.51	1.841 Collision Risk Procedures Req.	
9,369.92	9,261.94	9,397.54	9,250.06	36.81	35.74	25.64	10.31	-1,386.31	128.06	57.16	70.91	1.806 Collision Risk Procedures Req., ES, SF	
9,400.00	9,291.87	9,423.07	9,273.87	36.95	35.72	30.06	19.41	-1,384.92	128.90	56.63	70.27	1.834 Collision Risk Procedures Req.	
9,500.00	9,391.53	9,500.00	9,342.18	37.36	35.66	45.12	54.21	-1,379.58	146.19	80.16	66.03	2.214	
9,600.00	9,491.37	9,563.76	9,393.91	37.75	35.61	57.27	90.97	-1,373.94	186.54	126.26	60.28	3.095	
9,700.00	9,591.32	9,616.29	9,432.50	38.08	35.60	65.94	126.16	-1,368.54	244.44	188.92	55.52	4.403	
9,763.68	9,655.00	9,644.65	9,451.64	38.17	35.60	-21.76	146.84	-1,365.37	287.57	234.34	53.23	5.402	
9,800.00	9,691.32	9,659.28	9,461.02	38.17	35.60	-20.23	157.94	-1,363.67	313.76	261.62	52.14	6.018	
9,900.00	9,791.32	9,694.05	9,481.91	38.19	35.62	-17.03	185.43	-1,359.66	390.27	340.54	49.73	7.847	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 306H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.00	9,891.32	9,725.00	9,498.82	38.21	35.66	-14.70	211.14	-1,356.42	471.75	423.63	48.12	9.803	
10,098.68	9,990.00	9,750.00	9,511.26	38.23	35.70	-13.13	232.69	-1,354.06	555.65	508.67	46.98	11.827	
10,100.00	9,991.32	9,750.00	9,511.26	38.23	35.70	-4.03	232.69	-1,354.06	556.79	509.83	46.96	11.857	
10,125.00	10,016.31	9,750.00	9,511.26	38.24	35.70	-3.70	232.69	-1,354.06	578.12	531.54	46.58	12.412	
10,150.00	10,041.22	9,758.76	9,515.36	38.26	35.71	-3.02	240.40	-1,353.29	598.92	552.50	46.41	12.904	
10,175.00	10,065.99	9,764.97	9,518.18	38.27	35.73	-2.55	245.91	-1,352.76	619.18	573.00	46.18	13.407	
10,200.00	10,090.56	9,775.00	9,522.58	38.29	35.75	-2.03	254.88	-1,351.93	638.90	592.87	46.04	13.878	
10,225.00	10,114.85	9,775.00	9,522.58	38.31	35.75	-1.90	254.88	-1,351.93	658.00	612.34	45.66	14.410	
10,250.00	10,138.80	9,784.87	9,526.74	38.33	35.77	-1.50	263.80	-1,351.15	676.48	630.97	45.51	14.864	
10,275.00	10,162.34	9,791.88	9,529.58	38.35	35.79	-1.23	270.18	-1,350.62	694.34	649.04	45.29	15.330	
10,300.00	10,185.41	9,800.00	9,532.75	38.37	35.81	-0.97	277.63	-1,350.03	711.54	666.44	45.10	15.777	
10,325.00	10,207.94	9,800.00	9,532.75	38.39	35.81	-0.92	277.63	-1,350.03	728.15	683.40	44.75	16.271	
10,350.00	10,229.88	9,813.80	9,537.86	38.41	35.85	-0.58	290.42	-1,349.09	743.93	699.26	44.67	16.654	
10,375.00	10,251.16	9,825.00	9,541.74	38.44	35.88	-0.33	300.90	-1,348.38	759.10	714.56	44.54	17.043	
10,400.00	10,271.72	9,825.00	9,541.74	38.46	35.88	-0.32	300.90	-1,348.38	773.53	729.32	44.22	17.494	
10,425.00	10,291.51	9,836.88	9,545.59	38.49	35.92	-0.09	312.12	-1,347.68	787.20	743.10	44.10	17.849	
10,450.00	10,310.48	9,850.00	9,549.52	38.52	35.96	0.13	324.62	-1,346.97	800.20	756.18	44.01	18.181	
10,475.00	10,328.56	9,850.00	9,549.52	38.55	35.96	0.13	324.62	-1,346.97	812.36	768.64	43.72	18.580	
10,500.00	10,345.72	9,860.89	9,552.53	38.59	36.01	0.29	335.07	-1,346.43	823.77	780.16	43.61	18.891	
10,525.00	10,361.91	9,875.00	9,556.07	38.63	36.06	0.49	348.71	-1,345.81	834.47	790.93	43.54	19.164	
10,550.00	10,377.07	9,875.00	9,556.07	38.67	36.06	0.48	348.71	-1,345.81	844.27	800.98	43.29	19.504	
10,562.40	10,384.20	9,875.00	9,556.07	38.69	36.06	0.47	348.71	-1,345.81	848.92	805.76	43.16	19.668	
10,575.00	10,391.18	9,885.62	9,558.48	38.72	36.11	0.50	359.05	-1,345.39	853.32	810.14	43.18	19.763	
10,600.00	10,404.22	9,900.00	9,561.38	38.78	36.17	0.46	373.12	-1,344.90	861.66	818.53	43.13	19.976	
10,625.00	10,416.17	9,900.00	9,561.38	38.84	36.17	0.29	373.12	-1,344.90	869.11	826.17	42.94	20.240	
10,650.00	10,426.99	9,911.00	9,563.32	38.90	36.22	0.24	383.94	-1,344.58	875.81	832.92	42.90	20.417	
10,675.00	10,436.64	9,925.00	9,565.43	38.98	36.29	0.23	397.78	-1,344.25	881.77	838.88	42.90	20.555	
10,700.00	10,445.11	9,925.00	9,565.43	39.06	36.29	0.12	397.78	-1,344.25	886.85	844.07	42.78	20.730	
10,725.00	10,452.37	9,936.88	9,566.91	39.15	36.36	0.10	409.56	-1,344.03	891.14	848.34	42.80	20.821	
10,750.00	10,458.40	9,950.00	9,568.21	39.24	36.43	0.09	422.62	-1,343.85	894.65	851.80	42.85	20.881	
10,775.00	10,463.19	9,950.00	9,568.21	39.35	36.43	0.03	422.62	-1,343.85	897.31	854.50	42.81	20.961	
10,800.00	10,466.71	9,963.07	9,569.16	39.47	36.50	0.03	435.65	-1,343.75	899.12	856.22	42.89	20.962	
10,825.00	10,468.97	9,975.00	9,569.71	39.59	36.57	0.02	447.57	-1,343.72	900.15	857.16	42.99	20.940	
10,850.00	10,469.95	9,980.61	9,569.87	39.73	36.61	0.00	453.18	-1,343.72	900.32	857.25	43.06	20.907	
10,856.73	10,470.00	9,982.97	9,569.92	39.76	36.62	0.00	455.54	-1,343.73	900.23	857.14	43.09	20.893	
10,890.89	10,470.00	10,000.91	9,570.00	39.96	36.73	0.00	473.48	-1,343.83	900.00	856.74	43.26	20.807	
10,900.00	10,470.00	10,010.02	9,570.00	40.02	36.80	0.00	482.58	-1,343.89	900.00	856.68	43.32	20.776	
11,000.00	10,470.00	10,110.02	9,570.00	40.69	37.52	0.00	582.58	-1,344.56	900.00	855.96	44.04	20.435	
11,100.00	10,470.00	10,210.02	9,570.00	41.46	38.34	0.00	682.58	-1,345.22	900.00	855.18	44.82	20.081	
11,200.00	10,470.00	10,310.02	9,570.00	42.32	39.24	0.00	782.58	-1,345.88	900.00	854.37	45.63	19.722	
11,300.00	10,470.00	10,410.02	9,570.00	43.25	40.21	0.00	882.57	-1,346.55	900.00	853.51	46.49	19.359	
11,400.00	10,470.00	10,510.02	9,570.00	44.24	41.23	0.00	982.57	-1,347.21	900.00	852.62	47.38	18.995	
11,500.00	10,470.00	10,610.02	9,570.00	45.29	42.31	0.00	1,082.57	-1,347.87	900.00	851.69	48.31	18.631	
11,600.00	10,470.00	10,710.02	9,570.00	46.39	43.43	0.00	1,182.57	-1,348.53	900.00	850.73	49.27	18.268	
11,700.00	10,470.00	10,810.02	9,570.00	47.53	44.59	0.00	1,282.57	-1,349.20	900.00	849.74	50.26	17.909	
11,800.00	10,470.00	10,910.02	9,570.00	48.72	45.80	0.00	1,382.56	-1,349.86	900.00	848.73	51.27	17.553	
11,900.00	10,470.00	11,010.02	9,570.00	49.94	47.04	0.00	1,482.56	-1,350.52	900.00	847.68	52.32	17.202	
12,000.00	10,470.00	11,110.02	9,570.00	51.20	48.31	0.00	1,582.56	-1,351.19	900.00	846.61	53.39	16.857	
12,100.00	10,470.00	11,210.02	9,570.00	52.49	49.61	0.00	1,682.56	-1,351.85	900.00	845.52	54.48	16.519	
12,200.00	10,470.00	11,310.02	9,570.00	53.81	50.95	0.00	1,782.55	-1,352.51	900.00	844.40	55.60	16.186	
12,266.24	10,470.00	11,376.26	9,570.00	54.70	51.85	0.00	1,848.79	-1,352.95	900.00	843.64	56.36	15.970	
12,300.00	10,470.00	11,410.02	9,570.00	55.16	52.31	0.00	1,882.55	-1,353.18	900.00	843.26	56.74	15.862	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 306H - Wellbore #1 - Plan 1													Offset Site Error:	0.00 usft
Survey Program:		0-MWD+IGRF					Rule Assigned:				Offset Well Error:	0.50 usft		
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,400.00	10,470.00	11,510.02	9,570.00	56.53	53.70	0.00	1,982.55	-1,353.84	900.00	842.10	57.90	15.544		
12,500.00	10,470.00	11,610.02	9,570.00	57.93	55.12	0.00	2,082.55	-1,354.50	900.00	840.92	59.08	15.234		
12,600.00	10,470.00	11,710.02	9,570.00	59.36	56.55	0.00	2,182.55	-1,355.17	900.00	839.73	60.27	14.932		
12,700.00	10,470.00	11,810.02	9,570.00	60.80	58.01	0.00	2,282.54	-1,355.83	900.00	838.51	61.49	14.637		
12,800.00	10,470.00	11,910.02	9,570.00	62.27	59.49	0.00	2,382.54	-1,356.49	900.00	837.29	62.71	14.351		
12,900.00	10,470.00	12,010.02	9,570.00	63.76	60.99	0.00	2,482.54	-1,357.16	900.00	836.04	63.96	14.072		
13,000.00	10,470.00	12,110.02	9,570.00	65.26	62.51	0.00	2,582.54	-1,357.82	900.00	834.79	65.21	13.801		
13,100.00	10,470.00	12,210.02	9,570.00	66.78	64.05	0.00	2,682.53	-1,358.48	900.00	833.51	66.49	13.537		
13,200.00	10,470.00	12,310.02	9,570.00	68.32	65.60	0.00	2,782.53	-1,359.15	900.00	832.23	67.77	13.281		
13,300.00	10,470.00	12,410.02	9,570.00	69.88	67.17	0.00	2,882.53	-1,359.81	900.00	830.94	69.06	13.032		
13,400.00	10,470.00	12,510.02	9,570.00	71.45	68.76	0.00	2,982.53	-1,360.47	900.00	829.63	70.37	12.790		
13,500.00	10,470.00	12,610.02	9,570.00	73.03	70.36	0.00	3,082.53	-1,361.14	900.00	828.31	71.69	12.555		
13,600.00	10,470.00	12,710.02	9,570.00	74.63	71.97	0.00	3,182.52	-1,361.80	900.00	826.99	73.01	12.327		
13,700.00	10,470.00	12,810.02	9,570.00	76.24	73.59	0.00	3,282.52	-1,362.46	900.00	825.65	74.35	12.105		
13,800.00	10,470.00	12,910.02	9,570.00	77.87	75.23	0.00	3,382.52	-1,363.13	900.00	824.31	75.69	11.890		
13,900.00	10,470.00	13,010.02	9,570.00	79.50	76.87	0.00	3,482.52	-1,363.79	900.00	822.95	77.05	11.681		
14,000.00	10,470.00	13,110.02	9,570.00	81.14	78.53	0.00	3,582.51	-1,364.45	900.00	821.59	78.41	11.479		
14,100.00	10,470.00	13,210.02	9,570.00	82.80	80.20	0.00	3,682.51	-1,365.12	900.00	820.22	79.78	11.282		
14,200.00	10,470.00	13,310.02	9,570.00	84.46	81.88	0.00	3,782.51	-1,365.78	900.00	818.85	81.15	11.090		
14,300.00	10,470.00	13,410.02	9,570.00	86.14	83.56	0.00	3,882.51	-1,366.44	900.00	817.46	82.54	10.904		
14,400.00	10,470.00	13,510.02	9,570.00	87.82	85.26	0.00	3,982.51	-1,367.11	900.00	816.07	83.93	10.724		
14,500.00	10,470.00	13,610.02	9,570.00	89.51	86.96	0.00	4,082.50	-1,367.77	900.00	814.68	85.32	10.548		
14,600.00	10,470.00	13,710.02	9,570.00	91.21	88.67	0.00	4,182.50	-1,368.43	900.00	813.28	86.72	10.378		
14,700.00	10,470.00	13,810.02	9,570.00	92.91	90.39	0.00	4,282.50	-1,369.09	900.00	811.87	88.13	10.212		
14,800.00	10,470.00	13,910.02	9,570.00	94.63	92.12	0.00	4,382.50	-1,369.76	900.00	810.46	89.54	10.051		
14,900.00	10,470.00	14,010.02	9,570.00	96.35	93.85	0.00	4,482.49	-1,370.42	900.00	809.04	90.96	9.894		
15,000.00	10,470.00	14,110.02	9,570.00	98.07	95.59	0.00	4,582.49	-1,371.08	900.00	807.62	92.38	9.742		
15,100.00	10,470.00	14,210.02	9,570.00	99.81	97.33	0.00	4,682.49	-1,371.75	900.00	806.19	93.81	9.594		
15,200.00	10,470.00	14,310.02	9,570.00	101.55	99.08	0.00	4,782.49	-1,372.41	900.00	804.76	95.24	9.449		
15,300.00	10,470.00	14,410.02	9,570.00	103.29	100.84	0.00	4,882.49	-1,373.07	900.00	803.32	96.68	9.309		
15,389.10	10,470.00	14,499.12	9,570.00	104.85	102.41	0.00	4,971.58	-1,373.67	900.00	802.04	97.96	9.187		
15,400.00	10,470.00	14,510.02	9,570.00	105.04	102.60	0.00	4,982.48	-1,373.74	900.00	801.88	98.12	9.172		
15,500.00	10,470.00	14,610.02	9,570.00	106.80	104.37	0.00	5,082.48	-1,374.40	900.00	800.43	99.57	9.039		
15,600.00	10,470.00	14,710.02	9,570.00	108.56	106.14	0.00	5,182.48	-1,375.06	900.00	798.99	101.01	8.910		
15,700.00	10,470.00	14,810.02	9,570.00	110.32	107.91	0.00	5,282.48	-1,375.73	900.00	797.54	102.46	8.784		
15,800.00	10,470.00	14,910.02	9,570.00	112.09	109.69	0.00	5,382.48	-1,376.39	900.00	796.08	103.92	8.661		
15,900.00	10,470.00	15,010.02	9,570.00	113.86	111.48	0.00	5,482.47	-1,377.05	900.00	794.62	105.38	8.541		
16,000.00	10,470.00	15,110.02	9,570.00	115.64	113.26	0.00	5,582.47	-1,377.72	900.00	793.16	106.84	8.424		
16,100.00	10,470.00	15,210.02	9,570.00	117.42	115.06	0.00	5,682.47	-1,378.38	900.00	791.70	108.30	8.310		
16,200.00	10,470.00	15,310.02	9,570.00	119.21	116.85	0.00	5,782.47	-1,379.04	900.00	790.23	109.77	8.199		
16,300.00	10,470.00	15,410.02	9,570.00	121.00	118.65	0.00	5,882.46	-1,379.71	900.00	788.76	111.24	8.091		
16,400.00	10,470.00	15,510.02	9,570.00	122.79	120.45	0.00	5,982.46	-1,380.37	900.00	787.29	112.71	7.985		
16,500.00	10,470.00	15,610.02	9,570.00	124.59	122.26	0.00	6,082.46	-1,381.03	900.00	785.81	114.19	7.882		
16,600.00	10,470.00	15,710.02	9,570.00	126.39	124.07	0.00	6,182.46	-1,381.70	900.00	784.33	115.67	7.781		
16,700.00	10,470.00	15,810.02	9,570.00	128.19	125.88	0.00	6,282.46	-1,382.36	900.00	782.85	117.15	7.683		
16,800.00	10,470.00	15,910.02	9,570.00	130.00	127.69	0.00	6,382.45	-1,383.02	900.00	781.37	118.63	7.587		
16,900.00	10,470.00	16,010.02	9,570.00	131.81	129.51	0.00	6,482.45	-1,383.69	900.00	779.88	120.12	7.493		
17,000.00	10,470.00	16,110.02	9,570.00	133.62	131.33	0.00	6,582.45	-1,384.35	900.00	778.40	121.60	7.401		
17,100.00	10,470.00	16,210.02	9,570.00	135.43	133.15	0.00	6,682.45	-1,385.01	900.00	776.91	123.09	7.312		
17,200.00	10,470.00	16,310.02	9,570.00	137.25	134.98	0.00	6,782.44	-1,385.68	900.00	775.42	124.58	7.224		
17,300.00	10,470.00	16,410.02	9,570.00	139.07	136.80	0.00	6,882.44	-1,386.34	900.00	773.93	126.07	7.139		
17,400.00	10,470.00	16,510.02	9,570.00	140.89	138.63	0.00	6,982.44	-1,387.00	900.00	772.43	127.57	7.055		

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 306H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,500.00	10,470.00	16,610.02	9,570.00	142.71	140.46	0.00	7,082.44	-1,387.66	900.00	770.93	129.07	6.973	
17,600.00	10,470.00	16,710.02	9,570.00	144.54	142.30	0.00	7,182.44	-1,388.33	900.00	769.44	130.56	6.893	
17,700.00	10,470.00	16,810.02	9,570.00	146.37	144.13	0.00	7,282.43	-1,388.99	900.00	767.94	132.06	6.815	
17,800.00	10,470.00	16,910.02	9,570.00	148.20	145.97	0.00	7,382.43	-1,389.65	900.00	766.43	133.57	6.738	
17,900.00	10,470.00	17,010.02	9,570.00	150.03	147.81	0.00	7,482.43	-1,390.32	900.00	764.93	135.07	6.663	
18,000.00	10,470.00	17,110.02	9,570.00	151.86	149.65	0.00	7,582.43	-1,390.98	900.00	763.43	136.57	6.590	
18,100.00	10,470.00	17,210.02	9,570.00	153.70	151.49	0.00	7,682.42	-1,391.64	900.00	761.92	138.08	6.518	
18,200.00	10,470.00	17,310.02	9,570.00	155.54	153.34	0.00	7,782.42	-1,392.31	900.00	760.41	139.59	6.448	
18,300.00	10,470.00	17,410.02	9,570.00	157.38	155.18	0.00	7,882.42	-1,392.97	900.00	758.91	141.09	6.379	
18,389.10	10,470.00	17,499.12	9,570.00	159.02	156.83	0.00	7,971.52	-1,393.56	900.00	757.56	142.44	6.318	
18,400.00	10,470.00	17,510.02	9,570.00	159.22	157.03	0.00	7,982.42	-1,393.63	900.00	757.40	142.60	6.311	
18,500.00	10,470.00	17,610.02	9,570.00	161.06	158.88	0.00	8,082.42	-1,394.30	900.00	755.88	144.12	6.245	
18,600.00	10,470.00	17,710.02	9,570.00	162.91	160.73	0.00	8,182.41	-1,394.96	900.00	754.37	145.63	6.180	
18,700.00	10,470.00	17,810.02	9,570.00	164.75	162.58	0.00	8,282.41	-1,395.62	900.00	752.86	147.14	6.117	
18,800.00	10,470.00	17,910.02	9,570.00	166.60	164.44	0.00	8,382.41	-1,396.29	900.00	751.34	148.66	6.054	
18,900.00	10,470.00	18,010.02	9,570.00	168.45	166.29	0.00	8,482.41	-1,396.95	900.00	749.83	150.17	5.993	
19,000.00	10,470.00	18,110.02	9,570.00	170.30	168.15	0.00	8,582.40	-1,397.61	900.00	748.31	151.69	5.933	
19,100.00	10,470.00	18,210.02	9,570.00	172.15	170.01	0.00	8,682.40	-1,398.28	900.00	746.79	153.21	5.874	
19,200.00	10,470.00	18,310.02	9,570.00	174.01	171.87	0.00	8,782.40	-1,398.94	900.00	745.27	154.73	5.817	
19,300.00	10,470.00	18,410.02	9,570.00	175.86	173.72	0.00	8,882.40	-1,399.60	900.00	743.75	156.25	5.760	
19,400.00	10,470.00	18,510.02	9,570.00	177.71	175.59	0.00	8,982.40	-1,400.27	900.00	742.23	157.77	5.705	
19,500.00	10,470.00	18,610.02	9,570.00	179.57	177.45	0.00	9,082.39	-1,400.93	900.00	740.71	159.29	5.650	
19,600.00	10,470.00	18,710.02	9,570.00	181.43	179.31	0.00	9,182.39	-1,401.59	900.00	739.19	160.81	5.597	
19,700.00	10,470.00	18,810.02	9,570.00	183.29	181.18	0.00	9,282.39	-1,402.26	900.00	737.66	162.34	5.544	
19,800.00	10,470.00	18,910.02	9,570.00	185.15	183.04	0.00	9,382.39	-1,402.92	900.00	736.14	163.86	5.492	
19,900.00	10,470.00	19,010.02	9,570.00	187.01	184.91	0.00	9,482.38	-1,403.58	900.00	734.61	165.39	5.442	
20,000.00	10,470.00	19,110.02	9,570.00	188.87	186.77	0.00	9,582.38	-1,404.25	900.00	733.09	166.91	5.392	
20,100.00	10,470.00	19,210.02	9,570.00	190.74	188.64	0.00	9,682.38	-1,404.91	900.00	731.56	168.44	5.343	
20,200.00	10,470.00	19,310.02	9,570.00	192.60	190.51	0.00	9,782.38	-1,405.57	900.00	730.03	169.97	5.295	
20,300.00	10,470.00	19,410.02	9,570.00	194.46	192.38	0.00	9,882.38	-1,406.24	900.00	728.50	171.50	5.248	
20,400.00	10,470.00	19,510.02	9,570.00	196.33	194.25	0.00	9,982.37	-1,406.90	900.00	726.97	173.03	5.201	
20,500.00	10,470.00	19,610.02	9,570.00	198.20	196.12	0.00	10,082.37	-1,407.56	900.00	725.44	174.56	5.156	
20,600.00	10,470.00	19,710.02	9,570.00	200.07	197.98	0.00	10,182.37	-1,408.22	900.00	723.95	176.05	5.112	
20,686.73	10,470.00	19,796.75	9,570.00	201.58	199.50	0.00	10,269.10	-1,408.80	900.00	723.28	176.72	5.093	



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 403H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,100.00	10,470.00	17,213.84	9,570.00	153.70	147.05	71.13	7,700.00	1,258.62	2,800.90	2,520.40	280.51	9.985	
18,200.00	10,470.00	17,313.84	9,570.00	155.54	148.95	71.13	7,800.00	1,257.96	2,800.90	2,516.81	284.10	9.859	CC
18,300.00	10,470.00	17,413.84	9,570.00	157.38	150.85	71.13	7,900.00	1,257.30	2,800.90	2,513.22	287.69	9.736	
18,400.00	10,470.00	17,513.84	9,570.00	159.22	152.75	71.13	8,000.00	1,256.63	2,800.90	2,509.62	291.28	9.616	
18,500.00	10,470.00	17,613.84	9,570.00	161.06	154.66	71.13	8,099.99	1,255.97	2,800.90	2,506.03	294.87	9.499	
18,600.00	10,470.00	17,713.84	9,570.00	162.91	156.56	71.13	8,199.99	1,255.31	2,800.90	2,502.43	298.47	9.384	
18,700.00	10,470.00	17,813.84	9,570.00	164.75	158.46	71.13	8,299.99	1,254.64	2,800.90	2,498.84	302.07	9.272	
18,800.00	10,470.00	17,913.84	9,570.00	166.60	160.37	71.13	8,399.99	1,253.98	2,800.90	2,495.24	305.67	9.163	
18,900.00	10,470.00	18,013.84	9,570.00	168.45	162.27	71.13	8,499.98	1,253.32	2,800.90	2,491.64	309.27	9.057	
19,000.00	10,470.00	18,113.84	9,570.00	170.30	164.18	71.13	8,599.98	1,252.65	2,800.90	2,488.04	312.87	8.952	
19,100.00	10,470.00	18,213.84	9,570.00	172.15	166.08	71.13	8,699.98	1,251.99	2,800.90	2,484.43	316.47	8.850	
19,200.00	10,470.00	18,313.84	9,570.00	174.01	167.99	71.13	8,799.98	1,251.33	2,800.90	2,480.83	320.07	8.751	
19,300.00	10,470.00	18,413.84	9,570.00	175.86	169.89	71.13	8,899.98	1,250.66	2,800.90	2,477.22	323.68	8.653	
19,400.00	10,470.00	18,513.84	9,570.00	177.71	171.80	71.13	8,999.97	1,250.00	2,800.90	2,473.62	327.29	8.558	
19,500.00	10,470.00	18,613.84	9,570.00	179.57	173.70	71.13	9,099.97	1,249.34	2,800.90	2,470.01	330.89	8.465	
19,600.00	10,470.00	18,713.84	9,570.00	181.43	175.61	71.13	9,199.97	1,248.67	2,800.90	2,466.40	334.50	8.373	
19,700.00	10,470.00	18,813.84	9,570.00	183.29	177.51	71.13	9,299.97	1,248.01	2,800.90	2,462.79	338.11	8.284	
19,800.00	10,470.00	18,913.84	9,570.00	185.15	179.42	71.13	9,399.96	1,247.35	2,800.90	2,459.18	341.72	8.196	
19,900.00	10,470.00	19,013.84	9,570.00	187.01	181.33	71.13	9,499.96	1,246.68	2,800.90	2,455.57	345.33	8.111	
20,000.00	10,470.00	19,113.84	9,570.00	188.87	183.23	71.13	9,599.96	1,246.02	2,800.90	2,451.96	348.95	8.027	
20,100.00	10,470.00	19,213.84	9,570.00	190.74	185.14	71.13	9,699.96	1,245.36	2,800.90	2,448.34	352.56	7.944	
20,200.00	10,470.00	19,313.84	9,570.00	192.60	187.05	71.13	9,799.96	1,244.69	2,800.90	2,444.73	356.18	7.864	
20,300.00	10,470.00	19,413.84	9,570.00	194.46	188.95	71.13	9,899.95	1,244.03	2,800.90	2,441.11	359.79	7.785	
20,400.00	10,470.00	19,513.84	9,570.00	196.33	190.86	71.13	9,999.95	1,243.37	2,800.90	2,437.50	363.41	7.707	
20,500.00	10,470.00	19,613.84	9,570.00	198.20	192.77	71.13	10,099.95	1,242.70	2,800.90	2,433.88	367.02	7.631	
20,600.00	10,470.00	19,713.84	9,570.00	200.07	194.67	71.13	10,199.95	1,242.04	2,800.90	2,430.26	370.64	7.557	
20,612.66	10,470.00	19,726.50	9,570.00	200.29	194.92	71.13	10,212.60	1,241.96	2,800.90	2,429.82	371.08	7.548	
20,686.73	10,470.00	19,795.49	9,570.00	201.58	196.23	71.13	10,281.60	1,241.50	2,800.91	2,427.39	373.51	7.499	ES, SF

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 501H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,200.00	10,470.00	17,211.09	10,470.00	137.25	130.04	89.87	6,800.02	1,264.59	2,650.33	2,384.74	265.59	9.979	
17,300.00	10,470.00	17,311.09	10,470.00	139.07	131.94	89.87	6,900.02	1,263.93	2,650.33	2,381.00	269.33	9.841	
17,400.00	10,470.00	17,411.09	10,470.00	140.89	133.84	89.87	7,000.02	1,263.26	2,650.33	2,377.26	273.07	9.706	
17,500.00	10,470.00	17,511.09	10,470.00	142.71	135.74	89.87	7,100.02	1,262.60	2,650.33	2,373.52	276.81	9.575	
17,600.00	10,470.00	17,611.09	10,470.00	144.54	137.64	89.87	7,200.01	1,261.94	2,650.33	2,369.78	280.55	9.447	
17,700.00	10,470.00	17,711.09	10,470.00	146.37	139.54	89.87	7,300.01	1,261.27	2,650.33	2,366.03	284.30	9.322	
17,800.00	10,470.00	17,811.09	10,470.00	148.20	141.44	89.87	7,400.01	1,260.61	2,650.33	2,362.28	288.05	9.201	
17,900.00	10,470.00	17,911.09	10,470.00	150.03	143.34	89.87	7,500.01	1,259.95	2,650.33	2,358.53	291.80	9.083	
18,000.00	10,470.00	18,011.09	10,470.00	151.86	145.25	89.87	7,600.00	1,259.29	2,650.33	2,354.78	295.55	8.967	
18,100.00	10,470.00	18,111.09	10,470.00	153.70	147.15	89.87	7,700.00	1,258.62	2,650.33	2,351.02	299.31	8.855	
18,200.00	10,470.00	18,211.09	10,470.00	155.54	149.05	89.87	7,800.00	1,257.96	2,650.33	2,347.27	303.06	8.745	
18,300.00	10,470.00	18,311.09	10,470.00	157.38	150.95	89.87	7,900.00	1,257.30	2,650.33	2,343.51	306.82	8.638	
18,400.00	10,470.00	18,411.09	10,470.00	159.22	152.86	89.87	8,000.00	1,256.63	2,650.33	2,339.75	310.58	8.533	
18,500.00	10,470.00	18,511.09	10,470.00	161.06	154.76	89.87	8,099.99	1,255.97	2,650.33	2,335.99	314.34	8.431	
18,600.00	10,470.00	18,611.09	10,470.00	162.91	156.66	89.87	8,199.99	1,255.31	2,650.33	2,332.23	318.10	8.332	
18,700.00	10,470.00	18,711.09	10,470.00	164.75	158.57	89.87	8,299.99	1,254.64	2,650.33	2,328.46	321.87	8.234	
18,800.00	10,470.00	18,811.09	10,470.00	166.60	160.47	89.87	8,399.99	1,253.98	2,650.33	2,324.70	325.64	8.139	
18,900.00	10,470.00	18,911.09	10,470.00	168.45	162.38	89.87	8,499.98	1,253.32	2,650.33	2,320.93	329.40	8.046	
19,000.00	10,470.00	19,011.09	10,470.00	170.30	164.28	89.87	8,599.98	1,252.65	2,650.33	2,317.16	333.17	7.955	
19,100.00	10,470.00	19,111.09	10,470.00	172.15	166.19	89.87	8,699.98	1,251.99	2,650.33	2,313.39	336.94	7.866	
19,200.00	10,470.00	19,211.09	10,470.00	174.01	168.09	89.87	8,799.98	1,251.33	2,650.33	2,309.62	340.71	7.779	
19,300.00	10,470.00	19,311.09	10,470.00	175.86	170.00	89.87	8,899.98	1,250.66	2,650.33	2,305.85	344.49	7.694	
19,400.00	10,470.00	19,411.09	10,470.00	177.71	171.90	89.87	8,999.97	1,250.00	2,650.33	2,302.07	348.26	7.610	
19,500.00	10,470.00	19,511.09	10,470.00	179.57	173.81	89.87	9,099.97	1,249.34	2,650.33	2,298.30	352.03	7.529	
19,600.00	10,470.00	19,611.09	10,470.00	181.43	175.72	89.87	9,199.97	1,248.67	2,650.33	2,294.52	355.81	7.449	
19,700.00	10,470.00	19,711.09	10,470.00	183.29	177.62	89.87	9,299.97	1,248.01	2,650.33	2,290.74	359.59	7.370	
19,800.00	10,470.00	19,811.09	10,470.00	185.15	179.53	89.87	9,399.96	1,247.35	2,650.33	2,286.97	363.37	7.294	
19,900.00	10,470.00	19,911.09	10,470.00	187.01	181.44	89.87	9,499.96	1,246.68	2,650.33	2,283.19	367.14	7.219	
20,000.00	10,470.00	20,011.09	10,470.00	188.87	183.34	89.87	9,599.96	1,246.02	2,650.33	2,279.41	370.92	7.145	
20,100.00	10,470.00	20,111.09	10,470.00	190.74	185.25	89.87	9,699.96	1,245.36	2,650.33	2,275.63	374.71	7.073	
20,200.00	10,470.00	20,211.09	10,470.00	192.60	187.16	89.87	9,799.96	1,244.69	2,650.33	2,271.84	378.49	7.002	
20,300.00	10,470.00	20,311.09	10,470.00	194.46	189.06	89.87	9,899.95	1,244.03	2,650.33	2,268.06	382.27	6.933	
20,400.00	10,470.00	20,411.09	10,470.00	196.33	190.97	89.87	9,999.95	1,243.37	2,650.33	2,264.28	386.06	6.865	
20,500.00	10,470.00	20,511.09	10,470.00	198.20	192.88	89.87	10,099.95	1,242.70	2,650.33	2,260.49	389.84	6.799	
20,600.00	10,470.00	20,611.09	10,470.00	200.07	194.79	89.87	10,199.95	1,242.04	2,650.33	2,256.71	393.63	6.733	
20,612.66	10,470.00	20,623.75	10,470.00	200.29	195.03	89.87	10,212.60	1,241.96	2,650.33	2,256.25	394.08	6.725 CC	
20,686.73	10,470.00	20,692.74	10,470.00	201.58	196.34	89.87	10,281.60	1,241.50	2,650.34	2,253.71	396.63	6.682 ES, SF	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 505H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.50	0.50	20.20	80.20	29.50	85.45				
100.00	100.00	100.00	100.00	0.64	0.64	20.20	80.20	29.50	85.45	84.17	1.29	66.355	
200.00	200.00	200.00	200.00	1.34	1.34	20.20	80.20	29.50	85.45	82.78	2.67	31.949	
300.00	300.00	300.00	300.00	1.81	1.81	20.20	80.20	29.50	85.45	81.84	3.62	23.624	
400.00	400.00	400.00	400.00	2.18	2.18	20.20	80.20	29.50	85.45	81.09	4.37	19.569	
500.00	500.00	500.00	500.00	2.51	2.51	20.20	80.20	29.50	85.45	80.44	5.01	17.054	
600.00	600.00	600.00	600.00	2.79	2.79	20.20	80.20	29.50	85.45	79.87	5.59	15.299	
700.00	700.00	700.00	700.00	3.06	3.06	20.20	80.20	29.50	85.45	79.34	6.11	13.984	
800.00	800.00	800.00	800.00	3.30	3.30	20.20	80.20	29.50	85.45	78.86	6.60	12.951	
900.00	900.00	900.00	900.00	3.53	3.53	20.20	80.20	29.50	85.45	78.40	7.06	12.110	
1,000.00	1,000.00	1,000.00	1,000.00	3.74	3.74	20.20	80.20	29.50	85.45	77.96	7.49	11.410	
1,100.00	1,100.00	1,100.00	1,100.00	3.95	3.95	20.20	80.20	29.50	85.45	77.55	7.90	10.813	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	20.20	80.20	29.50	85.45	77.16	8.30	10.298	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	20.20	80.20	29.50	85.45	76.77	8.68	9.846	
1,400.00	1,400.00	1,400.00	1,400.00	4.52	4.52	20.20	80.20	29.50	85.45	76.41	9.05	9.446	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	20.20	80.20	29.50	85.45	76.05	9.40	9.088	
1,600.00	1,599.99	1,601.48	1,601.48	4.85	4.82	112.51	79.42	29.05	84.91	75.24	9.67	8.782	
1,700.00	1,699.96	1,702.92	1,702.88	5.01	4.98	113.91	77.09	27.69	83.32	73.35	9.97	8.359	
1,800.00	1,799.86	1,804.27	1,804.13	5.19	5.14	116.35	73.22	25.44	80.77	70.49	10.29	7.853	
1,900.00	1,899.68	1,905.49	1,905.15	5.39	5.33	120.02	67.80	22.29	77.47	66.84	10.63	7.287	
2,000.00	1,999.37	2,006.53	2,005.87	5.61	5.55	125.17	60.86	18.25	73.73	62.72	11.02	6.693	
2,100.00	2,098.90	2,107.35	2,106.21	5.85	5.78	132.10	52.40	13.34	70.04	58.59	11.45	6.119	
2,200.00	2,198.26	2,207.81	2,206.01	6.12	6.04	141.06	42.46	7.56	67.13	55.20	11.93	5.628	
2,258.57	2,256.35	2,265.95	2,263.72	6.28	6.20	147.04	36.33	4.00	66.51	54.27	12.24	5.435 CC, ES	
2,300.00	2,297.40	2,307.06	2,304.52	6.40	6.31	151.45	32.00	1.48	66.84	54.38	12.45	5.366	
2,400.00	2,396.30	2,406.18	2,402.90	6.71	6.60	162.02	21.56	-4.59	70.41	57.43	12.98	5.426	
2,500.04	2,494.97	2,505.18	2,501.17	7.03	6.90	171.49	11.14	-10.65	77.87	64.39	13.48	5.778	
2,600.00	2,593.41	2,604.01	2,599.26	7.37	7.21	179.17	0.73	-16.70	87.94	73.98	13.96	6.300	
2,700.00	2,691.89	2,702.88	2,697.39	7.72	7.53	-174.80	-9.69	-22.76	99.27	84.83	14.44	6.876	
2,800.00	2,790.37	2,801.75	2,795.52	8.08	7.86	-170.03	-20.10	-28.81	111.47	96.55	14.92	7.471	
2,900.00	2,888.85	2,900.61	2,893.66	8.45	8.19	-166.21	-30.51	-34.87	124.28	108.87	15.41	8.064	
3,000.00	2,987.33	2,999.48	2,991.79	8.83	8.54	-163.12	-40.93	-40.92	137.53	121.62	15.91	8.643	
3,100.00	3,085.81	3,098.35	3,089.92	9.21	8.89	-160.57	-51.34	-46.98	151.11	134.69	16.43	9.199	
3,200.00	3,184.30	3,197.22	3,188.05	9.61	9.24	-158.45	-61.75	-53.03	164.94	147.99	16.95	9.731	
3,300.00	3,282.78	3,296.09	3,286.19	10.00	9.60	-156.66	-72.16	-59.08	178.95	161.47	17.48	10.236	
3,400.00	3,381.26	3,394.96	3,384.32	10.40	9.97	-155.12	-82.58	-65.14	193.11	175.08	18.03	10.713	
3,500.00	3,479.74	3,493.83	3,482.45	10.81	10.34	-153.80	-92.99	-71.19	207.39	188.81	18.58	11.164	
3,600.00	3,578.22	3,592.70	3,580.59	11.22	10.71	-152.64	-103.40	-77.25	221.76	202.63	19.13	11.590	
3,700.00	3,676.70	3,691.42	3,678.59	11.63	11.05	-151.67	-113.67	-83.22	236.22	216.57	19.66	12.018	
3,800.00	3,775.18	3,789.91	3,776.58	12.05	11.45	-151.27	-122.20	-88.17	250.86	230.65	20.21	12.413	
3,900.00	3,873.66	3,888.37	3,874.76	12.47	11.90	-151.47	-128.53	-91.86	265.67	244.89	20.78	12.785	
4,000.00	3,972.14	3,986.67	3,972.94	12.89	12.32	-152.17	-132.67	-94.26	280.68	259.33	21.35	13.146	
4,100.00	4,070.62	4,084.67	4,070.92	13.32	12.68	-153.28	-134.63	-95.40	295.96	274.04	21.92	13.502	
4,200.00	4,169.10	4,182.86	4,169.10	13.74	12.78	-154.68	-134.80	-95.50	311.59	289.14	22.44	13.883	
4,300.00	4,267.58	4,281.34	4,267.58	14.17	12.82	-155.97	-134.80	-95.50	327.41	304.42	22.99	14.242	
4,400.00	4,366.06	4,379.82	4,366.06	14.60	12.88	-157.15	-134.80	-95.50	343.38	319.84	23.54	14.587	
4,500.00	4,464.54	4,478.30	4,464.54	15.03	12.93	-158.22	-134.80	-95.50	359.48	335.39	24.09	14.921	
4,600.00	4,563.02	4,576.78	4,563.02	15.46	12.98	-159.20	-134.80	-95.50	375.70	351.05	24.64	15.245	
4,700.00	4,661.51	4,675.26	4,661.51	15.90	13.04	-160.10	-134.80	-95.50	392.01	366.81	25.19	15.559	
4,800.00	4,759.99	4,773.74	4,759.99	16.33	13.09	-160.93	-134.80	-95.50	408.41	382.66	25.74	15.864	
4,900.00	4,858.47	4,872.22	4,858.47	16.77	13.15	-161.69	-134.80	-95.50	424.88	398.59	26.29	16.160	
5,000.00	4,956.95	4,970.70	4,956.95	17.21	13.20	-162.40	-134.80	-95.50	441.43	414.59	26.84	16.447	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 505H - Wellbore #1 - Plan 1													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+IGRF		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.00	5,055.43	5,069.18	5,055.43	17.65	13.26	-163.06	-134.80	-95.50	458.03	430.65	27.38	16.726			
5,200.00	5,153.91	5,167.66	5,153.91	18.09	13.31	-163.67	-134.80	-95.50	474.69	446.76	27.93	16.996			
5,300.00	5,252.39	5,266.14	5,252.39	18.53	13.37	-164.24	-134.80	-95.50	491.40	462.93	28.47	17.259			
5,400.00	5,350.87	5,364.62	5,350.87	18.97	13.42	-164.77	-134.80	-95.50	508.15	479.14	29.02	17.513			
5,500.00	5,449.35	5,463.10	5,449.35	19.41	13.48	-165.26	-134.80	-95.50	524.94	495.39	29.56	17.760			
5,600.00	5,547.83	5,561.59	5,547.83	19.85	13.54	-165.73	-134.80	-95.50	541.77	511.68	30.10	18.000			
5,700.00	5,646.31	5,660.07	5,646.31	20.30	13.59	-166.17	-134.80	-95.50	558.63	528.00	30.64	18.233			
5,800.00	5,744.79	5,758.55	5,744.79	20.74	13.65	-166.58	-134.80	-95.50	575.53	544.35	31.18	18.460			
5,900.00	5,843.27	5,857.03	5,843.27	21.18	13.71	-166.97	-134.80	-95.50	592.44	560.73	31.72	18.680			
6,000.00	5,941.75	5,955.51	5,941.75	21.63	13.77	-167.34	-134.80	-95.50	609.39	577.13	32.25	18.893			
6,100.00	6,040.23	6,053.99	6,040.23	22.08	13.82	-167.69	-134.80	-95.50	626.35	593.56	32.79	19.101			
6,200.00	6,138.71	6,152.47	6,138.71	22.52	13.88	-168.02	-134.80	-95.50	643.34	610.01	33.33	19.303			
6,300.00	6,237.20	6,250.95	6,237.20	22.97	13.94	-168.33	-134.80	-95.50	660.35	626.49	33.86	19.500			
6,400.00	6,335.68	6,349.43	6,335.68	23.41	14.00	-168.63	-134.80	-95.50	677.38	642.98	34.40	19.691			
6,500.00	6,434.16	6,447.91	6,434.16	23.86	14.06	-168.91	-134.80	-95.50	694.42	659.48	34.94	19.877			
6,600.00	6,532.64	6,546.39	6,532.64	24.31	14.12	-169.18	-134.80	-95.50	711.48	676.01	35.47	20.058			
6,700.00	6,631.12	6,644.87	6,631.12	24.76	14.17	-169.43	-134.80	-95.50	728.55	692.54	36.01	20.234			
6,800.00	6,729.60	6,743.35	6,729.60	25.21	14.23	-169.68	-134.80	-95.50	745.64	709.10	36.54	20.405			
6,900.00	6,828.08	6,841.83	6,828.08	25.65	14.29	-169.91	-134.80	-95.50	762.74	725.66	37.08	20.573			
7,000.00	6,926.56	6,940.31	6,926.56	26.10	14.35	-170.14	-134.80	-95.50	779.85	742.24	37.61	20.735			
7,100.00	7,025.04	7,038.79	7,025.04	26.55	14.41	-170.35	-134.80	-95.50	796.97	758.83	38.14	20.894			
7,200.00	7,123.52	7,137.28	7,123.52	27.00	14.47	-170.55	-134.80	-95.50	814.10	775.42	38.68	21.049			
7,300.00	7,222.00	7,235.76	7,222.00	27.45	14.53	-170.75	-134.80	-95.50	831.24	792.03	39.21	21.199			
7,400.00	7,320.48	7,334.24	7,320.48	27.90	14.59	-170.94	-134.80	-95.50	848.39	808.65	39.74	21.347			
7,500.00	7,418.96	7,432.72	7,418.96	28.35	14.65	-171.12	-134.80	-95.50	865.55	825.28	40.28	21.490			
7,600.00	7,517.44	7,531.20	7,517.44	28.80	14.71	-171.29	-134.80	-95.50	882.72	841.91	40.81	21.630			
7,700.00	7,615.92	7,629.68	7,615.92	29.26	14.78	-171.46	-134.80	-95.50	899.90	858.55	41.34	21.767			
7,800.00	7,714.41	7,728.16	7,714.41	29.71	14.84	-171.62	-134.80	-95.50	917.08	875.20	41.88	21.900			
7,900.00	7,812.89	7,826.64	7,812.89	30.16	14.90	-171.78	-134.80	-95.50	934.27	891.86	42.41	22.030			
8,000.00	7,911.37	7,925.12	7,911.37	30.61	14.96	-171.93	-134.80	-95.50	951.46	908.52	42.94	22.157			
8,100.00	8,009.85	8,023.60	8,009.85	31.06	15.02	-172.07	-134.80	-95.50	968.66	925.19	43.47	22.281			
8,200.00	8,108.33	8,122.08	8,108.33	31.51	15.08	-172.21	-134.80	-95.50	985.87	941.86	44.01	22.403			
13,600.00	10,470.00	13,607.54	10,470.00	74.63	61.66	90.00	3,191.28	-41.92	1,319.91	1,185.95	133.96	9.853			
13,700.00	10,470.00	13,707.54	10,470.00	76.24	63.53	90.00	3,291.28	-42.58	1,319.91	1,182.45	137.46	9.602			
13,800.00	10,470.00	13,807.54	10,470.00	77.87	65.40	90.00	3,391.27	-43.24	1,319.91	1,178.94	140.97	9.363			
13,900.00	10,470.00	13,907.54	10,470.00	79.50	67.27	90.00	3,491.27	-43.91	1,319.91	1,175.42	144.49	9.135			
14,000.00	10,470.00	14,007.54	10,470.00	81.14	69.15	90.00	3,591.27	-44.57	1,319.91	1,171.88	148.03	8.916			
14,100.00	10,470.00	14,107.54	10,470.00	82.80	71.02	90.00	3,691.27	-45.23	1,319.91	1,168.33	151.58	8.708			
14,200.00	10,470.00	14,207.54	10,470.00	84.46	72.90	90.00	3,791.26	-45.90	1,319.91	1,164.76	155.15	8.507			
14,300.00	10,470.00	14,307.54	10,470.00	86.14	74.78	90.00	3,891.26	-46.56	1,319.91	1,161.19	158.72	8.316			
14,400.00	10,470.00	14,407.54	10,470.00	87.82	76.67	90.00	3,991.26	-47.22	1,319.91	1,157.60	162.31	8.132			
14,500.00	10,470.00	14,507.54	10,470.00	89.51	78.55	90.00	4,091.26	-47.89	1,319.91	1,154.00	165.91	7.956			
14,600.00	10,470.00	14,607.54	10,470.00	91.21	80.44	90.00	4,191.26	-48.55	1,319.91	1,150.40	169.51	7.786			
14,700.00	10,470.00	14,707.54	10,470.00	92.91	82.32	90.00	4,291.25	-49.21	1,319.91	1,146.78	173.13	7.624			
14,800.00	10,470.00	14,807.54	10,470.00	94.63	84.21	90.00	4,391.25	-49.88	1,319.91	1,143.16	176.75	7.467			
14,900.00	10,470.00	14,907.54	10,470.00	96.35	86.10	90.00	4,491.25	-50.54	1,319.91	1,139.52	180.39	7.317			
15,000.00	10,470.00	15,007.54	10,470.00	98.07	87.99	90.00	4,591.25	-51.20	1,319.91	1,135.88	184.03	7.172			
15,100.00	10,470.00	15,107.54	10,470.00	99.81	89.88	90.00	4,691.24	-51.87	1,319.91	1,132.24	187.67	7.033			
15,200.00	10,470.00	15,207.54	10,470.00	101.55	91.77	90.00	4,791.24	-52.53	1,319.91	1,128.58	191.33	6.899			
15,300.00	10,470.00	15,307.54	10,470.00	103.29	93.67	90.00	4,891.24	-53.19	1,319.91	1,124.92	194.99	6.769			
15,400.00	10,470.00	15,407.54	10,470.00	105.04	95.56	90.00	4,991.24	-53.86	1,319.91	1,121.25	198.66	6.644			
15,500.00	10,470.00	15,507.54	10,470.00	106.80	97.45	90.00	5,091.24	-54.52	1,319.91	1,117.58	202.33	6.524			

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 505H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,600.00	10,470.00	15,607.54	10,470.00	108.56	99.35	90.00	5,191.23	-55.18	1,319.91	1,113.90	206.01	6.407	
15,700.00	10,470.00	15,707.54	10,470.00	110.32	101.25	90.00	5,291.23	-55.85	1,319.91	1,110.22	209.69	6.295	
15,800.00	10,470.00	15,807.54	10,470.00	112.09	103.14	90.00	5,391.23	-56.51	1,319.91	1,106.53	213.38	6.186	
15,900.00	10,470.00	15,907.54	10,470.00	113.86	105.04	90.00	5,491.23	-57.17	1,319.91	1,102.84	217.07	6.081	
16,000.00	10,470.00	16,007.54	10,470.00	115.64	106.94	90.00	5,591.22	-57.83	1,319.91	1,099.14	220.77	5.979	
16,100.00	10,470.00	16,107.54	10,470.00	117.42	108.84	90.00	5,691.22	-58.50	1,319.91	1,095.44	224.47	5.880	
16,200.00	10,470.00	16,207.54	10,470.00	119.21	110.74	90.00	5,791.22	-59.16	1,319.91	1,091.74	228.17	5.785	
16,300.00	10,470.00	16,307.54	10,470.00	121.00	112.63	90.00	5,891.22	-59.82	1,319.91	1,088.03	231.88	5.692	
16,400.00	10,470.00	16,407.54	10,470.00	122.79	114.53	90.00	5,991.22	-60.49	1,319.91	1,084.31	235.60	5.602	
16,500.00	10,470.00	16,507.54	10,470.00	124.59	116.44	90.00	6,091.21	-61.15	1,319.91	1,080.60	239.31	5.515	
16,600.00	10,470.00	16,607.54	10,470.00	126.39	118.34	90.00	6,191.21	-61.81	1,319.91	1,076.88	243.03	5.431	
16,700.00	10,470.00	16,707.54	10,470.00	128.19	120.24	90.00	6,291.21	-62.48	1,319.91	1,073.16	246.76	5.349	
16,800.00	10,470.00	16,807.54	10,470.00	130.00	122.14	90.00	6,391.21	-63.14	1,319.91	1,069.43	250.48	5.269	
16,900.00	10,470.00	16,907.54	10,470.00	131.81	124.04	90.00	6,491.20	-63.80	1,319.91	1,065.70	254.21	5.192	
17,000.00	10,470.00	17,007.54	10,470.00	133.62	125.94	90.00	6,591.20	-64.47	1,319.91	1,061.97	257.94	5.117	
17,100.00	10,470.00	17,107.54	10,470.00	135.43	127.85	90.00	6,691.20	-65.13	1,319.91	1,058.23	261.68	5.044	
17,200.00	10,470.00	17,207.54	10,470.00	137.25	129.75	90.00	6,791.20	-65.79	1,319.91	1,054.50	265.42	4.973	
17,300.00	10,470.00	17,307.54	10,470.00	139.07	131.65	90.00	6,891.20	-66.46	1,319.91	1,050.76	269.16	4.904	
17,400.00	10,470.00	17,407.54	10,470.00	140.89	133.56	90.00	6,991.19	-67.12	1,319.91	1,047.01	272.90	4.837	
17,500.00	10,470.00	17,507.54	10,470.00	142.71	135.46	90.00	7,091.19	-67.78	1,319.91	1,043.27	276.64	4.771	
17,600.00	10,470.00	17,607.54	10,470.00	144.54	137.37	90.00	7,191.19	-68.45	1,319.91	1,039.52	280.39	4.707	
17,700.00	10,470.00	17,707.54	10,470.00	146.37	139.27	90.00	7,291.19	-69.11	1,319.91	1,035.77	284.14	4.645	
17,800.00	10,470.00	17,807.54	10,470.00	148.20	141.18	90.00	7,391.19	-69.77	1,319.91	1,032.02	287.89	4.585	
17,900.00	10,470.00	17,907.54	10,470.00	150.03	143.08	90.00	7,491.18	-70.44	1,319.91	1,028.27	291.64	4.526	
18,000.00	10,470.00	18,007.54	10,470.00	151.86	144.99	90.00	7,591.18	-71.10	1,319.91	1,024.51	295.40	4.468	
18,100.00	10,470.00	18,107.54	10,470.00	153.70	146.89	90.00	7,691.18	-71.76	1,319.91	1,020.76	299.15	4.412	
18,200.00	10,470.00	18,207.54	10,470.00	155.54	148.80	90.00	7,791.18	-72.43	1,319.91	1,017.00	302.91	4.357	
18,300.00	10,470.00	18,307.54	10,470.00	157.38	150.71	90.00	7,891.17	-73.09	1,319.91	1,013.24	306.67	4.304	
18,400.00	10,470.00	18,407.54	10,470.00	159.22	152.61	90.00	7,991.17	-73.75	1,319.91	1,009.48	310.43	4.252	
18,500.00	10,470.00	18,507.54	10,470.00	161.06	154.52	90.00	8,091.17	-74.42	1,319.91	1,005.71	314.20	4.201	
18,600.00	10,470.00	18,607.54	10,470.00	162.91	156.43	90.00	8,191.17	-75.08	1,319.91	1,001.95	317.96	4.151	
18,700.00	10,470.00	18,707.54	10,470.00	164.75	158.33	90.00	8,291.17	-75.74	1,319.91	998.18	321.73	4.103	
18,800.00	10,470.00	18,807.54	10,470.00	166.60	160.24	90.00	8,391.16	-76.41	1,319.91	994.41	325.50	4.055	
18,900.00	10,470.00	18,907.54	10,470.00	168.45	162.15	90.00	8,491.16	-77.07	1,319.91	990.64	329.27	4.009	
19,000.00	10,470.00	19,007.54	10,470.00	170.30	164.05	90.00	8,591.16	-77.73	1,319.91	986.87	333.04	3.963	
19,100.00	10,470.00	19,107.54	10,470.00	172.15	165.96	90.00	8,691.16	-78.39	1,319.91	983.10	336.81	3.919	
19,200.00	10,470.00	19,207.54	10,470.00	174.01	167.87	90.00	8,791.15	-79.06	1,319.91	979.33	340.58	3.875	
19,300.00	10,470.00	19,307.54	10,470.00	175.86	169.78	90.00	8,891.15	-79.72	1,319.91	975.55	344.36	3.833	
19,400.00	10,470.00	19,407.54	10,470.00	177.71	171.69	90.00	8,991.15	-80.38	1,319.91	971.78	348.13	3.791	
19,500.00	10,470.00	19,507.54	10,470.00	179.57	173.59	90.00	9,091.15	-81.05	1,319.91	968.00	351.91	3.751	
19,600.00	10,470.00	19,607.54	10,470.00	181.43	175.50	90.00	9,191.15	-81.71	1,319.91	964.23	355.69	3.711	
19,700.00	10,470.00	19,707.54	10,470.00	183.29	177.41	90.00	9,291.14	-82.37	1,319.91	960.45	359.46	3.672	
19,800.00	10,470.00	19,807.54	10,470.00	185.15	179.32	90.00	9,391.14	-83.04	1,319.91	956.67	363.24	3.634	
19,900.00	10,470.00	19,907.54	10,470.00	187.01	181.23	90.00	9,491.14	-83.70	1,319.91	952.89	367.02	3.596	
20,000.00	10,470.00	20,007.54	10,470.00	188.87	183.14	90.00	9,591.14	-84.36	1,319.91	949.10	370.81	3.560	
20,100.00	10,470.00	20,107.54	10,470.00	190.74	185.04	90.00	9,691.13	-85.03	1,319.91	945.32	374.59	3.524	
20,200.00	10,470.00	20,207.54	10,470.00	192.60	186.95	90.00	9,791.13	-85.69	1,319.91	941.54	378.37	3.488	
20,300.00	10,470.00	20,307.54	10,470.00	194.46	188.86	90.00	9,891.13	-86.35	1,319.91	937.75	382.16	3.454	
20,400.00	10,470.00	20,407.54	10,470.00	196.33	190.77	90.00	9,991.13	-87.02	1,319.91	933.97	385.94	3.420	
20,500.00	10,470.00	20,507.54	10,470.00	198.20	192.68	90.00	10,091.13	-87.68	1,319.91	930.18	389.73	3.387	
20,600.00	10,470.00	20,607.54	10,470.00	200.07	194.58	90.00	10,191.12	-88.34	1,319.91	926.41	393.50	3.354	
20,656.87	10,470.00	20,664.41	10,470.00	201.06	195.57	90.00	10,248.00	-88.72	1,319.91	924.44	395.47	3.338	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 505H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,686.73	10,470.00	20,691.52	10,470.00	201.58	196.05	90.00	10,275.10	-88.90	1,319.91	923.50	396.42	3.330 SF	



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 602H - Wellbore #1 - Actual													Offset Site Error:	0.00 usft
Survey Program:		80-GYRO-NS, 3393-MWD+IGRF					Rule Assigned:			Offset Well Error:		0.50 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
3,500.00	3,479.74	3,466.22	3,461.67	10.81	12.53	0.66	-29.58	-1,256.70	996.43	973.17	23.26	42.837		
3,600.00	3,578.22	3,559.95	3,555.38	11.22	12.59	0.66	-29.80	-1,258.12	980.57	956.83	23.74	41.304		
3,700.00	3,676.70	3,656.01	3,651.43	11.63	12.65	0.65	-30.27	-1,259.91	965.05	940.82	24.22	39.838		
3,800.00	3,775.18	3,755.93	3,751.33	12.05	12.73	0.61	-31.04	-1,261.87	949.64	924.92	24.72	38.424		
3,900.00	3,873.66	3,857.15	3,852.52	12.47	12.80	0.58	-31.74	-1,263.63	934.00	908.79	25.21	37.046		
4,000.00	3,972.14	3,956.80	3,952.17	12.89	12.88	0.54	-32.59	-1,265.17	918.17	892.46	25.71	35.707		
4,100.00	4,070.62	4,056.47	4,051.82	13.32	12.97	0.49	-33.54	-1,266.61	902.26	876.04	26.22	34.409		
4,200.00	4,169.10	4,158.22	4,153.56	13.74	13.06	0.44	-34.49	-1,267.87	886.14	859.41	26.73	33.152		
4,300.00	4,267.58	4,257.62	4,252.95	14.17	13.16	0.41	-35.24	-1,268.87	869.79	842.54	27.24	31.927		
4,400.00	4,366.06	4,357.36	4,352.68	14.60	13.25	0.38	-35.79	-1,269.79	853.34	825.58	27.76	30.738		
4,500.00	4,464.54	4,456.91	4,452.22	15.03	13.35	0.35	-36.38	-1,270.58	836.77	808.49	28.28	29.588		
4,600.00	4,563.02	4,557.20	4,552.51	15.46	13.45	0.31	-37.07	-1,271.23	820.07	791.27	28.80	28.478		
4,700.00	4,661.51	4,658.65	4,653.96	15.90	13.54	0.26	-37.81	-1,271.56	803.04	773.74	29.30	27.409		
4,800.00	4,759.99	4,756.91	4,752.21	16.33	13.62	0.21	-38.56	-1,271.72	785.85	756.05	29.80	26.371		
4,900.00	4,858.47	4,852.58	4,847.88	16.77	13.71	0.15	-39.38	-1,272.04	768.85	738.54	30.31	25.367		
5,000.00	4,956.95	4,949.99	4,945.29	17.21	13.82	0.09	-40.32	-1,272.71	752.19	721.35	30.84	24.392		
5,100.00	5,055.43	5,046.05	5,041.34	17.65	13.93	0.00	-41.51	-1,273.51	735.68	704.30	31.38	23.446		
5,200.00	5,153.91	5,143.18	5,138.45	18.09	14.06	-0.10	-42.71	-1,274.71	719.57	687.65	31.92	22.541		
5,300.00	5,252.39	5,245.61	5,240.86	18.53	14.18	-0.20	-43.99	-1,275.84	703.34	670.89	32.45	21.674		
5,400.00	5,350.87	5,357.45	5,352.70	18.97	14.25	-0.26	-44.65	-1,275.76	685.95	653.06	32.89	20.858		
5,500.00	5,449.35	5,456.74	5,451.98	19.41	14.25	-0.24	-44.28	-1,274.44	667.25	633.94	33.32	20.028		
5,600.00	5,547.83	5,553.14	5,548.38	19.85	14.23	-0.23	-44.00	-1,273.33	648.75	614.99	33.76	19.217		
5,700.00	5,646.31	5,653.17	5,648.40	20.30	14.23	-0.23	-43.94	-1,272.22	630.29	596.10	34.19	18.436		
5,800.00	5,744.79	5,748.45	5,743.67	20.74	14.24	-0.26	-44.14	-1,271.20	611.88	577.23	34.65	17.659		
5,900.00	5,843.27	5,859.49	5,854.69	21.18	14.26	-0.32	-44.55	-1,269.18	592.75	557.71	35.04	16.915		
6,000.00	5,941.75	5,969.99	5,965.09	21.63	14.28	-0.41	-45.14	-1,264.58	571.31	535.87	35.44	16.120		
6,100.00	6,040.23	6,078.82	6,073.72	22.08	14.29	-0.53	-45.91	-1,258.12	548.18	512.36	35.82	15.304		
6,200.00	6,138.71	6,185.78	6,180.28	22.52	14.31	-0.67	-46.52	-1,248.91	522.39	486.17	36.22	14.424		
6,300.00	6,237.20	6,285.31	6,279.38	22.97	14.32	-0.83	-47.25	-1,239.62	495.96	459.30	36.66	13.529		
6,400.00	6,335.68	6,386.30	6,379.80	23.41	14.34	-1.18	-49.28	-1,229.18	468.62	431.55	37.07	12.642		
6,500.00	6,434.16	6,485.55	6,478.39	23.86	14.38	-1.68	-52.04	-1,218.01	440.44	402.94	37.50	11.745		
6,600.00	6,532.64	6,579.85	6,571.97	24.31	14.43	-2.36	-55.57	-1,207.04	412.00	373.99	38.01	10.839		
6,700.00	6,631.12	6,673.17	6,664.67	24.76	14.50	-3.13	-59.14	-1,196.84	384.30	345.76	38.55	9.970		
6,800.00	6,729.60	6,769.95	6,760.83	25.21	14.59	-4.04	-62.83	-1,186.58	357.00	317.96	39.04	9.145		
6,900.00	6,828.08	6,868.17	6,858.33	25.65	14.70	-5.26	-67.26	-1,175.51	329.23	289.73	39.50	8.336		
7,000.00	6,926.56	6,963.32	6,952.72	26.10	14.83	-6.68	-71.59	-1,164.38	301.22	261.21	40.01	7.529		
7,100.00	7,025.04	7,057.98	7,046.69	26.55	14.97	-8.36	-75.93	-1,153.80	273.91	233.38	40.53	6.758		
7,200.00	7,123.52	7,153.68	7,141.71	27.00	15.12	-10.42	-80.31	-1,143.31	247.07	206.06	41.01	6.024		
7,300.00	7,222.00	7,248.83	7,236.16	27.45	15.28	-13.08	-85.16	-1,132.87	220.73	179.26	41.47	5.322		
7,400.00	7,320.48	7,343.17	7,329.84	27.90	15.44	-16.47	-90.34	-1,122.99	195.54	153.64	41.90	4.666		
7,500.00	7,418.96	7,440.58	7,426.59	28.35	15.63	-20.97	-95.89	-1,113.16	171.63	129.49	42.14	4.073		
7,600.00	7,517.44	7,537.66	7,522.84	28.80	15.84	-27.17	-101.58	-1,101.88	147.79	105.62	42.18	3.504		
7,700.00	7,615.92	7,632.77	7,617.12	29.26	16.04	-35.49	-107.29	-1,090.60	126.10	84.13	41.97	3.005		
7,800.00	7,714.41	7,727.95	7,711.53	29.71	16.25	-46.44	-113.00	-1,080.00	108.58	67.24	41.34	2.626		
7,900.00	7,812.89	7,823.41	7,806.29	30.16	16.46	-60.29	-118.75	-1,069.99	96.88	56.51	40.37	2.400		
8,000.00	7,911.37	7,919.36	7,901.57	30.61	16.67	-76.20	-124.72	-1,060.47	92.83	53.15	39.68	2.340 ES, SF		
8,000.71	7,912.06	7,920.04	7,902.25	30.61	16.68	-76.32	-124.77	-1,060.40	92.83	53.15	39.67	2.340 CC		
8,100.00	8,009.85	8,015.69	7,997.30	31.06	16.90	-91.94	-130.58	-1,051.36	96.62	56.54	40.08	2.411		
8,200.00	8,108.33	8,111.97	8,092.99	31.51	17.13	-105.49	-136.40	-1,042.53	107.25	65.75	41.50	2.584		
8,300.00	8,206.81	8,209.83	8,190.32	31.97	17.38	-116.13	-142.34	-1,034.22	122.62	79.32	43.30	2.832		
8,400.00	8,305.29	8,309.98	8,290.16	32.42	17.68	-123.57	-147.85	-1,028.70	139.04	94.05	44.99	3.090		
8,500.00	8,403.77	8,409.56	8,389.57	32.87	17.93	-129.05	-152.38	-1,025.13	155.24	108.82	46.42	3.344		

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 602H - Wellbore #1 - Actual													Offset Site Error: 0.00 usft
Survey Program: 80-GYRO-NS, 3393-MWD+IGRF													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,600.00	8,502.25	8,511.45	8,491.37	33.32	18.17	-133.70	-155.65	-1,022.27	171.09	123.34	47.75	3.583	
8,700.00	8,600.73	8,613.39	8,593.28	33.78	18.35	-137.92	-156.36	-1,020.53	185.38	136.43	48.95	3.787	
8,800.00	8,699.21	8,712.13	8,692.03	34.23	18.48	-141.37	-156.42	-1,019.86	199.28	149.35	49.93	3.991	
8,900.00	8,797.69	8,810.67	8,790.56	34.68	18.62	-144.18	-157.01	-1,019.58	213.76	162.95	50.80	4.207	
9,000.00	8,896.17	8,909.84	8,889.73	35.14	18.73	-146.49	-158.05	-1,019.80	228.49	176.91	51.57	4.430	
9,096.99	8,991.68	9,006.55	8,986.41	35.58	18.81	-148.19	-159.87	-1,020.91	242.69	190.48	52.22	4.648	
9,100.00	8,994.65	9,009.57	8,989.43	35.59	18.81	-148.24	-159.95	-1,020.96	243.13	190.90	52.23	4.655	
9,200.00	9,093.36	9,110.68	9,090.50	36.04	18.86	-149.60	-162.08	-1,023.09	256.06	203.25	52.80	4.849	
9,300.00	9,192.46	9,204.36	9,184.17	36.50	18.92	-150.87	-162.77	-1,023.65	267.54	214.24	53.30	5.019	
9,400.00	9,291.87	9,301.94	9,281.71	36.95	19.04	-152.40	-161.61	-1,021.79	278.24	224.28	53.96	5.157	
9,500.00	9,391.53	9,402.34	9,382.08	37.36	19.11	-153.72	-159.94	-1,019.53	286.90	232.32	54.58	5.256	
9,600.00	9,491.37	9,502.31	9,482.03	37.75	19.21	-154.48	-159.31	-1,017.99	293.08	237.96	55.12	5.317	
9,700.00	9,591.32	9,601.50	9,581.21	38.08	19.35	-154.83	-159.43	-1,016.67	297.04	241.44	55.60	5.343	
9,763.68	9,655.00	9,664.80	9,644.51	38.17	19.46	113.24	-159.73	-1,015.80	298.44	242.65	55.79	5.350	
9,800.00	9,691.32	9,701.00	9,680.70	38.17	19.52	113.24	-159.96	-1,015.30	298.99	243.14	55.85	5.353	
9,900.00	9,791.32	9,801.46	9,781.15	38.19	19.70	113.32	-160.98	-1,014.05	300.54	244.49	56.05	5.362	
10,000.00	9,891.32	9,903.21	9,882.89	38.21	19.88	113.48	-162.14	-1,013.42	301.55	245.31	56.24	5.362	
10,098.68	9,990.00	10,004.07	9,983.75	38.23	20.02	113.58	-162.87	-1,013.01	302.22	245.81	56.41	5.358	
10,100.00	9,991.32	10,005.48	9,985.15	38.23	20.02	122.65	-162.88	-1,013.01	302.22	245.81	56.41	5.358	
10,125.00	10,016.31	10,032.02	10,011.69	38.24	20.05	122.79	-163.09	-1,013.16	302.56	246.09	56.47	5.358	
10,150.00	10,041.22	10,058.47	10,038.15	38.26	20.08	123.10	-163.31	-1,013.47	303.49	246.97	56.52	5.370	
10,175.00	10,065.99	10,084.61	10,064.28	38.27	20.08	123.56	-163.50	-1,013.89	305.03	248.52	56.51	5.397	
10,200.00	10,090.56	10,110.53	10,090.20	38.29	20.07	124.13	-163.54	-1,014.38	307.23	250.74	56.49	5.439	
10,225.00	10,114.85	10,136.24	10,115.90	38.31	20.06	124.80	-163.43	-1,014.91	310.11	253.67	56.44	5.494	
10,250.00	10,138.80	10,161.67	10,141.32	38.33	20.05	125.55	-163.17	-1,015.49	313.73	257.35	56.38	5.565	
10,275.00	10,162.34	10,185.57	10,165.21	38.35	20.02	126.32	-162.87	-1,016.07	318.16	261.89	56.26	5.655	
10,300.00	10,185.41	10,209.09	10,188.72	38.37	19.99	127.12	-162.56	-1,016.66	323.49	267.36	56.13	5.763	
10,325.00	10,207.94	10,232.09	10,211.72	38.39	19.96	127.95	-162.26	-1,017.26	329.76	273.79	55.97	5.892	
10,350.00	10,229.88	10,254.52	10,234.13	38.41	19.93	128.76	-161.96	-1,017.87	337.02	281.24	55.78	6.042	
10,375.00	10,251.16	10,276.06	10,255.67	38.44	19.90	129.52	-161.66	-1,018.46	345.31	289.74	55.57	6.214	
10,400.00	10,271.72	10,296.92	10,276.51	38.46	19.87	130.21	-161.35	-1,019.02	354.66	299.32	55.34	6.409	
10,425.00	10,291.51	10,317.05	10,296.63	38.49	19.84	130.81	-161.02	-1,019.54	365.08	310.00	55.09	6.627	
10,450.00	10,310.48	10,336.40	10,315.97	38.52	19.82	131.30	-160.69	-1,020.03	376.60	321.77	54.82	6.869	
10,475.00	10,328.56	10,354.86	10,334.42	38.55	19.79	131.65	-160.36	-1,020.49	389.19	334.64	54.55	7.135	
10,500.00	10,345.72	10,372.18	10,351.74	38.59	19.77	131.82	-160.06	-1,020.92	402.86	348.60	54.26	7.424	
10,525.00	10,361.91	10,388.53	10,368.08	38.63	19.75	131.81	-159.79	-1,021.33	417.58	363.61	53.97	7.738	
10,550.00	10,377.07	10,403.86	10,383.40	38.67	19.73	131.58	-159.54	-1,021.71	433.33	379.65	53.67	8.073	
10,562.40	10,384.20	10,411.07	10,390.61	38.69	19.72	131.38	-159.43	-1,021.89	441.51	387.98	53.53	8.248	
10,575.00	10,391.18	10,418.13	10,397.67	38.72	19.71	130.66	-159.33	-1,022.07	450.03	396.65	53.38	8.431	
10,600.00	10,404.22	10,431.33	10,410.86	38.78	19.69	129.07	-159.14	-1,022.40	467.48	414.40	53.07	8.808	
10,625.00	10,416.17	10,443.43	10,422.96	38.84	19.68	127.25	-158.97	-1,022.70	485.62	432.85	52.77	9.203	
10,650.00	10,426.99	10,454.10	10,433.62	38.90	19.67	125.12	-158.83	-1,022.97	504.42	451.96	52.47	9.614	
10,675.00	10,436.64	10,463.51	10,443.02	38.98	19.66	122.64	-158.71	-1,023.19	523.84	471.67	52.16	10.042	
10,700.00	10,445.11	10,471.77	10,451.28	39.06	19.65	119.80	-158.61	-1,023.38	543.81	491.94	51.86	10.485	
10,725.00	10,452.37	10,478.87	10,458.38	39.15	19.64	116.55	-158.53	-1,023.53	564.28	512.71	51.57	10.942	
10,750.00	10,458.40	10,484.80	10,464.31	39.24	19.63	112.86	-158.47	-1,023.66	585.19	533.91	51.28	11.412	
10,775.00	10,463.19	10,489.54	10,469.05	39.35	19.63	108.70	-158.41	-1,023.75	606.48	555.49	50.99	11.893	
10,800.00	10,466.71	10,493.09	10,472.60	39.47	19.62	104.10	-158.38	-1,023.82	628.08	577.37	50.72	12.384	
10,825.00	10,468.97	10,495.45	10,474.96	39.59	19.62	99.07	-158.35	-1,023.87	649.93	599.48	50.45	12.884	
10,850.00	10,469.95	10,496.61	10,476.12	39.73	19.62	93.71	-158.34	-1,023.89	671.95	621.77	50.18	13.390	
10,856.73	10,470.00	10,496.72	10,476.23	39.76	19.62	92.22	-158.34	-1,023.89	677.91	627.79	50.11	13.528	
10,900.00	10,470.00	10,497.14	10,476.65	40.02	19.62	92.29	-158.34	-1,023.90	716.47	666.78	49.69	14.418	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 602H - Wellbore #1 - Actual												Offset Site Error:	0.00 usft
Survey Program: 80-GYRO-NS, 3393-MWD+IGRF												Offset Well Error:	0.50 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,000.00	10,470.00	10,498.09	10,477.60	40.69	19.62	92.47	-158.33	-1,023.92	807.42	758.54	48.88	16.518	
11,100.00	10,470.00	10,499.03	10,478.54	41.46	19.62	92.64	-158.32	-1,023.94	900.30	852.05	48.25	18.660	
11,200.00	10,470.00	12,060.48	11,390.05	42.32	27.58	158.95	791.42	-989.55	992.28	929.43	62.85	15.789	
11,245.86	10,470.00	12,099.90	11,390.52	42.74	27.88	159.05	830.79	-991.38	992.13	928.88	63.26	15.685	
11,300.00	10,470.00	12,149.13	11,391.42	43.25	28.36	159.17	879.96	-993.68	992.29	928.56	63.73	15.569	
11,400.00	10,470.00	12,242.45	11,393.63	44.24	29.44	159.41	973.16	-997.90	993.14	928.51	64.63	15.366	
11,500.00	10,470.00	12,337.54	11,396.73	45.29	30.65	159.70	1,068.08	-1,002.80	994.61	929.08	65.53	15.178	
11,600.00	10,470.00	12,441.38	11,400.44	46.39	32.06	160.05	1,171.68	-1,008.58	996.30	929.84	66.45	14.992	
11,700.00	10,470.00	12,534.50	11,403.48	47.53	33.38	160.38	1,264.59	-1,014.18	997.59	930.20	67.38	14.804	
12,300.00	10,470.00	13,183.34	11,407.00	55.16	43.59	160.69	1,913.06	-1,022.90	999.63	924.94	74.68	13.385	
12,400.00	10,470.00	13,276.71	11,404.54	56.53	45.15	160.65	2,006.39	-1,023.66	997.10	921.13	75.97	13.125	
12,500.00	10,470.00	13,367.03	11,402.84	57.93	46.67	160.61	2,096.70	-1,024.16	995.36	918.11	77.25	12.885	
12,594.59	10,470.00	13,449.67	11,402.34	59.28	48.07	160.60	2,179.33	-1,024.67	994.83	916.40	78.43	12.684	
12,600.00	10,470.00	13,454.81	11,402.35	59.36	48.16	160.60	2,184.47	-1,024.72	994.83	916.33	78.50	12.672	
12,700.00	10,470.00	13,557.05	11,402.97	60.80	49.91	160.67	2,286.69	-1,026.51	995.05	915.20	79.85	12.461	
12,800.00	10,470.00	13,682.30	11,401.41	62.27	52.08	160.77	2,411.88	-1,029.68	993.18	911.74	81.44	12.196	
12,900.00	10,470.00	13,784.40	11,399.00	63.76	53.86	160.85	2,513.91	-1,032.65	990.21	907.38	82.83	11.955	
13,000.00	10,470.00	13,876.32	11,397.23	65.26	55.48	160.95	2,605.77	-1,035.63	987.55	903.43	84.12	11.740	
13,100.00	10,470.00	13,967.59	11,396.45	66.78	57.09	161.06	2,696.98	-1,038.54	985.92	900.53	85.39	11.546	
13,200.00	10,470.00	14,061.48	11,396.58	68.32	58.75	161.23	2,790.81	-1,042.23	984.99	898.34	86.65	11.368	
13,300.00	10,470.00	14,166.31	11,397.10	69.88	60.63	161.43	2,895.54	-1,046.49	984.38	896.37	88.02	11.184	
13,400.00	10,470.00	14,265.91	11,396.18	71.45	62.42	161.50	2,995.12	-1,048.57	983.05	893.60	89.46	10.989	
13,500.00	10,470.00	14,365.07	11,395.71	73.03	64.21	161.57	3,094.25	-1,050.71	982.13	891.25	90.89	10.806	
13,600.00	10,470.00	14,463.92	11,394.90	74.63	66.37	161.79	3,212.99	-1,055.66	980.41	887.97	92.45	10.605	
13,700.00	10,470.00	14,561.33	11,392.07	76.24	68.32	161.90	3,320.30	-1,059.30	977.06	883.10	93.97	10.398	
13,800.00	10,470.00	14,689.48	11,388.97	77.87	70.10	161.93	3,418.37	-1,061.61	973.54	878.09	95.45	10.200	
13,900.00	10,470.00	14,791.13	11,384.86	79.50	71.96	161.83	3,519.94	-1,061.87	969.81	872.69	97.13	9.985	
14,000.00	10,470.00	14,878.45	11,381.57	81.14	73.55	161.68	3,607.19	-1,060.78	966.83	868.14	98.69	9.796	
14,100.00	10,470.00	14,968.95	11,379.33	82.80	75.21	161.55	3,697.66	-1,059.92	964.98	864.71	100.28	9.623	
14,200.00	10,470.00	15,060.36	11,378.25	84.46	76.88	161.50	3,789.06	-1,059.91	964.08	862.28	101.80	9.470	
14,300.00	10,470.00	15,160.00	11,377.59	86.14	78.71	161.46	3,888.69	-1,060.08	963.61	860.16	103.45	9.315	
14,374.76	10,470.00	15,230.61	11,377.26	87.39	80.01	161.42	3,959.30	-1,060.04	963.45	858.81	104.63	9.208	
14,400.00	10,470.00	15,254.65	11,377.22	87.82	80.45	161.41	3,983.35	-1,060.03	963.47	858.43	105.04	9.173	
14,500.00	10,470.00	15,352.63	11,377.28	89.51	82.26	161.39	4,081.32	-1,060.15	963.69	857.03	106.67	9.035	
14,600.00	10,470.00	15,450.03	11,377.78	91.21	84.05	161.40	4,178.72	-1,060.86	964.16	855.92	108.24	8.907	
14,700.00	10,470.00	15,550.01	11,378.83	92.91	85.90	161.47	4,278.68	-1,062.44	964.87	855.07	109.80	8.788	
14,800.00	10,470.00	15,660.62	11,378.93	94.63	87.95	161.50	4,389.29	-1,063.60	964.82	853.21	111.61	8.644	
14,900.00	10,470.00	15,761.98	11,378.58	96.35	89.84	161.55	4,490.63	-1,065.28	964.17	850.94	113.23	8.515	
15,000.00	10,470.00	15,856.91	11,377.78	98.07	91.60	161.47	4,585.55	-1,064.85	963.74	848.82	114.92	8.386	
15,012.49	10,470.00	15,868.37	11,377.70	98.29	91.82	161.46	4,597.01	-1,064.70	963.73	848.60	115.13	8.371	
15,100.00	10,470.00	15,960.11	11,377.07	99.81	93.52	161.32	4,688.73	-1,063.13	963.84	846.96	116.88	8.246	
15,200.00	10,470.00	16,069.22	11,374.73	101.55	95.55	161.11	4,797.80	-1,060.93	962.65	843.58	119.06	8.085	
15,300.00	10,470.00	16,169.19	11,372.89	103.29	97.41	161.01	4,897.75	-1,060.44	961.27	840.35	120.93	7.949	
15,400.00	10,470.00	16,270.01	11,371.51	105.04	99.30	161.01	4,998.55	-1,061.45	959.87	837.20	122.67	7.825	
15,500.00	10,470.00	16,359.46	11,370.66	106.80	100.97	161.02	5,087.99	-1,062.55	958.81	834.63	124.18	7.721	
15,523.91	10,470.00	16,379.93	11,370.72	107.22	101.35	161.03	5,108.45	-1,062.95	958.77	834.27	124.50	7.701	
15,600.00	10,470.00	16,453.44	11,371.09	108.56	102.73	161.08	5,181.95	-1,064.07	958.92	833.22	125.70	7.629	
15,700.00	10,470.00	16,554.65	11,371.09	110.32	104.62	161.03	5,283.16	-1,063.95	959.17	831.64	127.54	7.521	
15,800.00	10,470.00	16,654.52	11,370.99	112.09	106.49	160.99	5,383.04	-1,063.96	959.29	829.95	129.34	7.417	
15,900.00	10,470.00	16,761.13	11,370.88	113.86	108.49	160.99	5,489.64	-1,064.69	959.19	827.96	131.23	7.309	
16,000.00	10,470.00	16,859.71	11,370.36	115.64	110.34	160.98	5,588.22	-1,065.36	958.69	825.71	132.97	7.210	
16,100.00	10,470.00	16,956.10	11,370.43	117.42	112.15	161.03	5,684.59	-1,066.81	958.49	823.92	134.57	7.123	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 602H - Wellbore #1 - Actual													Offset Site Error: 0.00 usft
Survey Program: 80-GYRO-NS, 3393-MWD+IGRF													Offset Well Error: 0.50 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
16,101.60	10,470.00	16,957.64	11,370.44	117.45	112.18	161.03	5,686.13	-1,066.84	958.49	823.89	134.60	7.121	
16,200.00	10,470.00	17,049.90	11,371.22	119.21	113.91	161.12	5,778.37	-1,068.83	958.80	822.78	136.02	7.049	
16,300.00	10,470.00	17,159.58	11,372.23	121.00	115.97	161.28	5,888.00	-1,071.98	958.96	821.26	137.70	6.964	
16,400.00	10,470.00	17,260.68	11,372.90	122.79	117.88	161.48	5,989.02	-1,075.94	958.55	819.44	139.11	6.891	
16,500.00	10,470.00	17,365.95	11,373.15	124.59	119.86	161.65	6,094.23	-1,079.48	957.93	817.27	140.66	6.810	
16,600.00	10,470.00	17,477.28	11,372.31	126.39	121.96	161.84	6,205.46	-1,083.93	956.15	813.89	142.26	6.721	
16,700.00	10,470.00	17,588.07	11,370.40	128.19	124.05	161.99	6,316.16	-1,087.96	953.60	809.68	143.92	6.626	
16,800.00	10,470.00	17,696.69	11,366.18	130.00	126.10	161.97	6,424.68	-1,089.61	949.63	803.74	145.89	6.509	
16,900.00	10,470.00	17,794.38	11,361.65	131.81	127.95	161.85	6,522.27	-1,089.60	945.43	797.56	147.87	6.394	
17,000.00	10,470.00	17,873.44	11,358.15	133.62	129.44	161.63	6,601.22	-1,087.49	942.33	792.62	149.71	6.295	
17,055.30	10,470.00	17,912.00	11,357.13	134.62	130.17	161.50	6,639.73	-1,085.97	941.77	791.18	150.59	6.254	
17,100.00	10,470.00	17,941.61	11,356.82	135.43	130.72	161.41	6,669.31	-1,084.66	942.08	790.84	151.23	6.229	
17,200.00	10,470.00	18,008.00	11,358.28	137.25	131.97	161.24	6,735.61	-1,081.58	945.72	793.22	152.51	6.201	
17,300.00	10,470.00	18,087.53	11,362.32	139.07	133.45	161.06	6,814.94	-1,077.67	952.27	798.20	154.06	6.181	
17,400.00	10,470.00	18,177.96	11,368.08	140.89	135.14	160.89	6,905.07	-1,073.24	960.10	804.17	155.93	6.157	
17,500.00	10,470.00	18,308.70	11,375.26	142.71	137.59	160.62	7,035.45	-1,066.85	967.22	807.86	159.37	6.069	
17,600.00	10,470.00	18,412.83	11,378.95	144.54	139.54	160.38	7,139.40	-1,061.88	972.40	810.51	161.89	6.006	
17,700.00	10,470.00	18,524.66	11,381.93	146.37	141.65	160.18	7,251.12	-1,057.93	976.31	811.75	164.56	5.933	
17,800.00	10,470.00	18,632.47	11,384.68	148.20	143.68	160.11	7,358.88	-1,056.45	979.40	812.62	166.78	5.872	
17,900.00	10,470.00	18,734.27	11,387.14	150.03	145.61	160.14	7,460.65	-1,056.80	981.78	813.17	168.61	5.823	
18,000.00	10,470.00	18,853.24	11,390.04	151.86	147.86	160.29	7,579.56	-1,059.29	983.65	813.08	170.57	5.767	
18,100.00	10,470.00	18,968.79	11,390.65	153.70	150.05	160.47	7,695.04	-1,063.03	983.27	810.93	172.34	5.705	
18,200.00	10,470.00	19,074.27	11,389.92	155.54	152.05	160.57	7,800.48	-1,065.82	981.97	807.91	174.05	5.642	
18,300.00	10,470.00	19,185.01	11,387.37	157.38	154.15	160.51	7,911.18	-1,066.29	979.88	803.59	176.29	5.558	
18,400.00	10,470.00	19,278.93	11,384.29	159.22	155.93	160.43	8,005.06	-1,066.62	976.92	798.69	178.23	5.481	
18,479.53	10,470.00	19,338.00	11,383.76	160.69	157.05	160.43	8,064.12	-1,067.18	976.15	796.90	179.26	5.446	
18,500.00	10,470.00	19,356.05	11,383.83	161.06	157.39	160.43	8,082.17	-1,067.38	976.20	796.63	179.57	5.436	
18,600.00	10,470.00	19,448.98	11,384.11	162.91	159.15	160.43	8,175.09	-1,067.76	976.58	795.30	181.28	5.387	
18,700.00	10,470.00	19,529.00	11,385.36	164.75	160.67	160.31	8,255.07	-1,065.65	979.05	796.12	182.93	5.352	
18,800.00	10,470.00	19,622.42	11,387.62	166.60	162.44	160.10	8,348.37	-1,061.67	982.96	797.77	185.18	5.308	
18,900.00	10,470.00	19,713.14	11,390.38	168.45	164.15	159.97	8,439.01	-1,058.85	987.10	799.96	187.14	5.275	
19,000.00	10,470.00	19,798.15	11,394.46	170.30	165.75	159.93	8,523.90	-1,057.34	992.46	803.84	188.62	5.262	
19,100.00	10,470.00	19,891.46	11,399.96	172.15	167.52	159.89	8,617.03	-1,055.22	998.99	808.60	190.39	5.247	
19,200.00	10,470.00	20,026.18	11,404.44	174.01	170.06	159.52	8,751.43	-1,047.51	1,004.44	809.90	194.53	5.163	
19,300.00	10,470.00	20,156.00	11,402.69	175.86	172.50	158.96	8,880.92	-1,038.47	1,005.76	806.78	198.98	5.055	
19,400.00	10,470.00	20,269.94	11,399.45	177.71	174.65	158.49	8,994.60	-1,031.60	1,005.55	802.85	202.70	4.961	
19,500.00	10,470.00	20,377.20	11,396.05	179.57	176.68	158.18	9,101.73	-1,027.80	1,004.15	798.36	205.79	4.880	
19,600.00	10,470.00	20,500.41	11,391.96	181.43	179.03	158.09	9,224.86	-1,028.57	1,001.03	792.54	208.49	4.801	
19,700.00	10,470.00	20,592.82	11,388.75	183.29	180.79	158.06	9,317.20	-1,030.01	997.46	787.07	210.39	4.741	
19,800.00	10,470.00	20,693.59	11,385.44	185.15	182.70	158.01	9,417.92	-1,031.07	994.28	781.74	212.54	4.678	
19,900.00	10,470.00	20,798.60	11,381.62	187.01	184.70	157.98	9,522.84	-1,032.80	990.53	775.83	214.69	4.614	
20,000.00	10,470.00	20,895.64	11,378.31	188.87	186.54	157.98	9,619.80	-1,034.62	986.90	770.26	216.64	4.555	
20,100.00	10,470.00	20,993.40	11,375.29	190.74	188.40	158.00	9,717.49	-1,037.01	983.38	764.90	218.48	4.501	
20,200.00	10,470.00	21,084.66	11,373.24	192.60	190.14	158.07	9,808.69	-1,039.72	980.44	760.40	220.04	4.456	
20,300.00	10,470.00	21,176.89	11,372.40	194.46	191.90	158.19	9,900.86	-1,042.88	978.55	757.12	221.43	4.419	
20,400.00	10,470.00	21,274.05	11,372.05	196.33	193.75	158.37	9,997.93	-1,047.00	976.89	754.20	222.70	4.387	
20,500.00	10,470.00	21,364.10	11,372.90	198.20	195.46	158.61	10,087.85	-1,051.66	976.11	752.54	223.57	4.366	
20,600.00	10,470.00	21,462.89	11,374.32	200.07	197.34	158.85	10,186.53	-1,056.13	976.05	751.40	224.65	4.345	
20,686.73	10,470.00	21,550.98	11,375.43	201.58	199.02	159.10	10,274.49	-1,060.80	975.62	750.41	225.21	4.332	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 603H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	2.00	2.00	0.50	0.50	178.85	-30.00	0.60	30.01				
100.00	100.00	102.00	102.00	0.64	0.65	178.85	-30.00	0.60	30.01	28.71	1.30	23.109	
200.00	200.00	202.00	202.00	1.34	1.35	178.85	-30.00	0.60	30.01	27.32	2.68	11.180	
300.00	300.00	302.00	302.00	1.81	1.82	178.85	-30.00	0.60	30.01	26.38	3.62	8.278	
400.00	400.00	402.00	402.00	2.18	2.19	178.85	-30.00	0.60	30.01	25.63	4.37	6.861	
500.00	500.00	502.00	502.00	2.51	2.51	178.85	-30.00	0.60	30.01	24.99	5.02	5.982	
600.00	600.00	602.00	602.00	2.79	2.80	178.85	-30.00	0.60	30.01	24.42	5.59	5.367	
700.00	700.00	702.00	702.00	3.06	3.06	178.85	-30.00	0.60	30.01	23.89	6.12	4.906	
800.00	800.00	802.00	802.00	3.30	3.30	178.85	-30.00	0.60	30.01	23.40	6.60	4.544	
900.00	900.00	902.00	902.00	3.53	3.53	178.85	-30.00	0.60	30.01	22.95	7.06	4.250	
1,000.00	1,000.00	1,002.00	1,002.00	3.74	3.75	178.85	-30.00	0.60	30.01	22.51	7.49	4.004	
1,100.00	1,100.00	1,102.00	1,102.00	3.95	3.96	178.85	-30.00	0.60	30.01	22.10	7.91	3.795	
1,200.00	1,200.00	1,202.00	1,202.00	4.15	4.15	178.85	-30.00	0.60	30.01	21.70	8.30	3.614	
1,300.00	1,300.00	1,302.00	1,302.00	4.34	4.34	178.85	-30.00	0.60	30.01	21.32	8.68	3.456	
1,400.00	1,400.00	1,402.00	1,402.00	4.52	4.53	178.85	-30.00	0.60	30.01	20.96	9.05	3.316	
1,415.99	1,415.99	1,417.99	1,417.99	4.55	4.56	178.85	-30.00	0.60	30.01	20.90	9.11	3.295 CC	
1,500.00	1,500.00	1,501.99	1,501.99	4.70	4.70	178.85	-30.00	0.60	30.01	20.60	9.41	3.190 ES, SF	
1,600.00	1,599.99	1,601.47	1,601.46	4.85	4.82	-90.53	-30.88	0.43	30.89	21.22	9.66	3.196	
1,700.00	1,699.96	1,700.87	1,700.83	5.01	4.97	-93.93	-33.46	-0.07	33.54	23.58	9.96	3.369	
1,800.00	1,799.86	1,800.00	1,799.86	5.19	5.13	-98.50	-37.71	-0.89	38.15	27.89	10.26	3.719	
1,900.00	1,899.68	1,899.20	1,898.87	5.39	5.31	-103.28	-43.65	-2.03	44.90	34.32	10.58	4.245	
2,000.00	1,999.37	1,997.97	1,997.34	5.61	5.52	-107.62	-51.24	-3.49	53.89	42.98	10.91	4.939	
2,100.00	2,098.90	2,096.40	2,095.32	5.85	5.74	-111.26	-60.45	-5.27	65.15	53.88	11.27	5.782	
2,200.00	2,198.26	2,194.42	2,192.72	6.12	5.99	-114.18	-71.27	-7.36	78.66	67.02	11.65	6.753	
2,300.00	2,297.40	2,293.11	2,290.68	6.40	6.26	-116.80	-83.08	-9.63	93.83	81.76	12.07	7.776	
2,400.00	2,396.30	2,391.67	2,388.51	6.71	6.54	-119.46	-94.87	-11.91	110.00	97.48	12.51	8.791	
2,500.00	2,494.97	2,490.05	2,486.15	7.03	6.83	-122.07	-106.64	-14.18	127.27	114.29	12.98	9.807	
2,600.00	2,593.41	2,590.65	2,586.13	7.37	7.16	-124.86	-117.49	-16.27	144.44	130.96	13.48	10.714	
2,700.00	2,691.89	2,691.70	2,686.83	7.72	7.63	-127.80	-125.80	-17.87	160.24	146.18	14.05	11.401	
2,800.00	2,790.37	2,792.92	2,787.88	8.08	8.08	-130.92	-131.48	-18.97	174.82	160.22	14.61	11.969	
2,900.00	2,888.85	2,894.17	2,889.08	8.45	8.50	-134.22	-134.54	-19.56	188.40	173.27	15.12	12.457	
3,000.00	2,987.33	2,994.43	2,989.33	8.83	8.60	-137.67	-135.12	-19.67	201.27	185.78	15.49	12.993	
3,100.00	3,085.81	3,092.91	3,087.81	9.21	8.67	-140.77	-135.12	-19.67	214.51	198.62	15.90	13.494	
3,200.00	3,184.30	3,191.39	3,186.30	9.61	8.76	-143.52	-135.12	-19.67	228.31	211.97	16.34	13.970	
3,300.00	3,282.78	3,289.87	3,284.78	10.00	8.84	-145.94	-135.12	-19.67	242.56	225.75	16.81	14.431	
3,400.00	3,381.26	3,388.35	3,383.26	10.40	8.93	-148.10	-135.12	-19.67	257.20	239.91	17.29	14.876	
3,500.00	3,479.74	3,486.83	3,481.74	10.81	9.01	-150.03	-135.12	-19.67	272.15	254.37	17.78	15.304	
3,600.00	3,578.22	3,585.31	3,580.22	11.22	9.10	-151.75	-135.12	-19.67	287.38	269.09	18.29	15.716	
3,700.00	3,676.70	3,683.79	3,678.70	11.63	9.18	-153.30	-135.12	-19.67	302.84	284.04	18.80	16.111	
3,800.00	3,775.18	3,782.27	3,777.18	12.05	9.27	-154.70	-135.12	-19.67	318.49	299.18	19.31	16.490	
3,900.00	3,873.66	3,880.75	3,875.66	12.47	9.35	-155.97	-135.12	-19.67	334.32	314.48	19.84	16.853	
4,000.00	3,972.14	3,979.23	3,974.14	12.89	9.44	-157.12	-135.12	-19.67	350.29	329.92	20.36	17.202	
4,100.00	4,070.62	4,077.72	4,072.62	13.32	9.52	-158.18	-135.12	-19.67	366.38	345.49	20.89	17.537	
4,200.00	4,169.10	4,176.20	4,171.10	13.74	9.60	-159.14	-135.12	-19.67	382.59	361.17	21.42	17.857	
4,300.00	4,267.58	4,274.68	4,269.58	14.17	9.69	-160.03	-135.12	-19.67	398.90	376.94	21.96	18.166	
4,400.00	4,366.06	4,373.16	4,368.06	14.60	9.77	-160.85	-135.12	-19.67	415.29	392.79	22.50	18.461	
4,500.00	4,464.54	4,471.64	4,466.54	15.03	9.86	-161.60	-135.12	-19.67	431.76	408.72	23.03	18.745	
4,600.00	4,563.02	4,570.12	4,568.02	15.46	9.94	-162.30	-135.12	-19.67	448.29	424.72	23.57	19.018	
4,700.00	4,661.51	4,668.60	4,663.51	15.90	10.02	-162.95	-135.12	-19.67	464.89	440.78	24.11	19.281	
4,800.00	4,759.99	4,767.08	4,761.99	16.33	10.11	-163.56	-135.12	-19.67	481.54	456.89	24.65	19.534	
4,900.00	4,858.47	4,865.56	4,860.47	16.77	10.19	-164.12	-135.12	-19.67	498.24	473.04	25.19	19.777	
5,000.00	4,956.95	4,964.04	4,958.95	17.21	10.28	-164.65	-135.12	-19.67	514.98	489.24	25.74	20.011	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 603H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,055.43	5,062.52	5,057.43	17.65	10.36	-165.14	-135.12	-19.67	531.76	505.49	26.28	20.236	
5,200.00	5,153.91	5,161.00	5,155.91	18.09	10.44	-165.61	-135.12	-19.67	548.58	521.76	26.82	20.454	
5,300.00	5,252.39	5,259.48	5,254.39	18.53	10.53	-166.04	-135.12	-19.67	565.43	538.07	27.36	20.664	
5,400.00	5,350.87	5,357.96	5,352.87	18.97	10.61	-166.46	-135.12	-19.67	582.32	554.41	27.91	20.866	
5,500.00	5,449.35	5,456.44	5,451.35	19.41	10.69	-166.85	-135.12	-19.67	599.23	570.78	28.45	21.062	
5,600.00	5,547.83	5,554.93	5,549.83	19.85	10.78	-167.21	-135.12	-19.67	616.16	587.17	28.99	21.251	
5,700.00	5,646.31	5,653.41	5,648.31	20.30	10.86	-167.56	-135.12	-19.67	633.12	603.58	29.54	21.434	
5,800.00	5,744.79	5,751.89	5,746.79	20.74	10.94	-167.89	-135.12	-19.67	650.10	620.02	30.08	21.610	
5,900.00	5,843.27	5,850.37	5,845.27	21.18	11.03	-168.20	-135.12	-19.67	667.10	636.47	30.63	21.781	
6,000.00	5,941.75	5,948.85	5,943.75	21.63	11.11	-168.50	-135.12	-19.67	684.12	652.95	31.17	21.947	
6,100.00	6,040.23	6,047.33	6,042.23	22.08	11.19	-168.78	-135.12	-19.67	701.15	669.44	31.72	22.107	
6,200.00	6,138.71	6,145.81	6,140.71	22.52	11.28	-169.05	-135.12	-19.67	718.21	685.95	32.26	22.263	
6,300.00	6,237.20	6,244.29	6,239.20	22.97	11.36	-169.31	-135.12	-19.67	735.27	702.47	32.81	22.413	
6,400.00	6,335.68	6,342.77	6,337.68	23.41	11.44	-169.55	-135.12	-19.67	752.35	719.00	33.35	22.559	
6,500.00	6,434.16	6,441.25	6,436.16	23.86	11.53	-169.79	-135.12	-19.67	769.44	735.55	33.89	22.701	
6,600.00	6,532.64	6,539.73	6,534.64	24.31	11.61	-170.01	-135.12	-19.67	786.55	752.11	34.44	22.839	
6,700.00	6,631.12	6,638.21	6,633.12	24.76	11.69	-170.23	-135.12	-19.67	803.66	768.68	34.98	22.972	
6,800.00	6,729.60	6,736.69	6,731.60	25.21	11.77	-170.43	-135.12	-19.67	820.79	785.26	35.53	23.102	
6,900.00	6,828.08	6,835.17	6,830.08	25.65	11.86	-170.63	-135.12	-19.67	837.93	801.85	36.07	23.228	
7,000.00	6,926.56	6,933.65	6,928.56	26.10	11.94	-170.82	-135.12	-19.67	855.07	818.45	36.62	23.351	
7,100.00	7,025.04	7,032.13	7,027.04	26.55	12.02	-171.00	-135.12	-19.67	872.23	835.06	37.16	23.470	
7,200.00	7,123.52	7,130.62	7,125.52	27.00	12.11	-171.18	-135.12	-19.67	889.39	851.68	37.71	23.587	
7,300.00	7,222.00	7,229.10	7,224.00	27.45	12.19	-171.34	-135.12	-19.67	906.56	868.31	38.25	23.700	
7,400.00	7,320.48	7,327.58	7,322.48	27.90	12.27	-171.51	-135.12	-19.67	923.73	884.94	38.80	23.810	
7,500.00	7,418.96	7,426.06	7,420.96	28.35	12.35	-171.66	-135.12	-19.67	940.92	901.58	39.34	23.917	
7,600.00	7,517.44	7,524.54	7,519.44	28.80	12.44	-171.81	-135.12	-19.67	958.11	918.22	39.89	24.021	
7,700.00	7,615.92	7,623.02	7,617.92	29.26	12.52	-171.96	-135.12	-19.67	975.31	934.88	40.43	24.123	
7,800.00	7,714.41	7,721.50	7,716.41	29.71	12.60	-172.10	-135.12	-19.67	992.51	951.53	40.98	24.222	
14,800.00	10,470.00	15,726.66	11,400.00	94.63	85.86	125.11	4,391.28	-49.77	1,613.58	1,451.41	162.17	9.950	
14,900.00	10,470.00	15,826.66	11,400.00	96.35	87.75	125.11	4,491.27	-50.43	1,613.58	1,448.33	165.24	9.765	
15,000.00	10,470.00	15,926.66	11,400.00	98.07	89.64	125.11	4,591.27	-51.10	1,613.57	1,445.25	168.33	9.586	
15,100.00	10,470.00	16,026.66	11,400.00	99.81	91.53	125.11	4,691.27	-51.76	1,613.57	1,442.16	171.42	9.413	
15,200.00	10,470.00	16,126.66	11,400.00	101.55	93.42	125.11	4,791.27	-52.43	1,613.57	1,439.06	174.51	9.246	
15,300.00	10,470.00	16,226.66	11,400.00	103.29	95.31	125.11	4,891.26	-53.10	1,613.57	1,435.96	177.61	9.085	
15,400.00	10,470.00	16,326.66	11,400.00	105.04	97.20	125.11	4,991.26	-53.76	1,613.57	1,432.85	180.72	8.929	
15,500.00	10,470.00	16,426.66	11,400.00	106.80	99.10	125.11	5,091.26	-54.43	1,613.57	1,429.74	183.83	8.778	
15,600.00	10,470.00	16,526.66	11,400.00	108.56	100.99	125.11	5,191.26	-55.09	1,613.56	1,426.62	186.94	8.631	
15,700.00	10,470.00	16,626.66	11,400.00	110.32	102.89	125.11	5,291.26	-55.76	1,613.56	1,423.50	190.07	8.490	
15,800.00	10,470.00	16,726.66	11,400.00	112.09	104.78	125.11	5,391.25	-56.42	1,613.56	1,420.37	193.19	8.352	
15,900.00	10,470.00	16,826.66	11,400.00	113.86	106.68	125.11	5,491.25	-57.09	1,613.56	1,417.24	196.32	8.219	
16,000.00	10,470.00	16,926.66	11,400.00	115.64	108.58	125.11	5,591.25	-57.75	1,613.56	1,414.11	199.45	8.090	
16,100.00	10,470.00	17,026.66	11,400.00	117.42	110.48	125.11	5,691.25	-58.42	1,613.56	1,410.97	202.59	7.965	
16,200.00	10,470.00	17,126.66	11,400.00	119.21	112.38	125.11	5,791.24	-59.08	1,613.56	1,407.82	205.73	7.843	
16,300.00	10,470.00	17,226.66	11,400.00	121.00	114.27	125.11	5,891.24	-59.75	1,613.55	1,404.68	208.88	7.725	
16,400.00	10,470.00	17,326.66	11,400.00	122.79	116.17	125.11	5,991.24	-60.41	1,613.55	1,401.53	212.02	7.610	
16,500.00	10,470.00	17,426.66	11,400.00	124.59	118.07	125.11	6,091.24	-61.08	1,613.55	1,398.38	215.17	7.499	
16,600.00	10,470.00	17,526.66	11,400.00	126.39	119.97	125.11	6,191.24	-61.74	1,613.55	1,395.22	218.33	7.390	
16,700.00	10,470.00	17,626.66	11,400.00	128.19	121.88	125.11	6,291.23	-62.41	1,613.55	1,392.06	221.48	7.285	
16,800.00	10,470.00	17,726.66	11,400.00	130.00	123.78	125.11	6,391.23	-63.07	1,613.55	1,388.90	224.64	7.183	
16,900.00	10,470.00	17,826.66	11,400.00	131.81	125.68	125.11	6,491.23	-63.74	1,613.55	1,385.74	227.81	7.083	
17,000.00	10,470.00	17,926.66	11,400.00	133.62	127.58	125.11	6,591.23	-64.40	1,613.54	1,382.57	230.97	6.986	
17,100.00	10,470.00	18,026.66	11,400.00	135.43	129.48	125.11	6,691.22	-65.07	1,613.54	1,379.40	234.14	6.891	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 603H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,200.00	10,470.00	18,126.66	11,400.00	137.25	131.39	125.11	6,791.22	-65.73	1,613.54	1,376.23	237.31	6.799	
17,300.00	10,470.00	18,226.66	11,400.00	139.07	133.29	125.11	6,891.22	-66.40	1,613.54	1,373.06	240.48	6.710	
17,400.00	10,470.00	18,326.66	11,400.00	140.89	135.19	125.11	6,991.22	-67.06	1,613.54	1,369.88	243.66	6.622	
17,500.00	10,470.00	18,426.66	11,400.00	142.71	137.10	125.11	7,091.22	-67.73	1,613.54	1,366.70	246.83	6.537	
17,600.00	10,470.00	18,526.66	11,400.00	144.54	139.00	125.11	7,191.21	-68.39	1,613.54	1,363.52	250.01	6.454	
17,700.00	10,470.00	18,626.66	11,400.00	146.37	140.90	125.11	7,291.21	-69.06	1,613.53	1,360.34	253.19	6.373	
17,800.00	10,470.00	18,726.66	11,400.00	148.20	142.81	125.11	7,391.21	-69.72	1,613.53	1,357.16	256.37	6.294	
17,900.00	10,470.00	18,826.66	11,400.00	150.03	144.71	125.11	7,491.21	-70.39	1,613.53	1,353.97	259.56	6.216	
18,000.00	10,470.00	18,926.66	11,400.00	151.86	146.62	125.11	7,591.20	-71.05	1,613.53	1,350.78	262.74	6.141	
18,100.00	10,470.00	19,026.66	11,400.00	153.70	148.52	125.11	7,691.20	-71.72	1,613.53	1,347.60	265.93	6.067	
18,200.00	10,470.00	19,126.66	11,400.00	155.54	150.43	125.11	7,791.20	-72.38	1,613.53	1,344.40	269.12	5.996	
18,300.00	10,470.00	19,226.66	11,400.00	157.38	152.34	125.11	7,891.20	-73.05	1,613.52	1,341.21	272.31	5.925	
18,400.00	10,470.00	19,326.66	11,400.00	159.22	154.24	125.11	7,991.20	-73.71	1,613.52	1,338.02	275.51	5.857	
18,500.00	10,470.00	19,426.66	11,400.00	161.06	156.15	125.11	8,091.19	-74.38	1,613.52	1,334.82	278.70	5.789	
18,600.00	10,470.00	19,526.66	11,400.00	162.91	158.05	125.11	8,191.19	-75.04	1,613.52	1,331.63	281.90	5.724	
18,700.00	10,470.00	19,626.66	11,400.00	164.75	159.96	125.11	8,291.19	-75.71	1,613.52	1,328.43	285.09	5.660	
18,800.00	10,470.00	19,726.66	11,400.00	166.60	161.87	125.11	8,391.19	-76.37	1,613.52	1,325.23	288.29	5.597	
18,900.00	10,470.00	19,826.66	11,400.00	168.45	163.77	125.11	8,491.18	-77.04	1,613.52	1,322.03	291.49	5.535	
19,000.00	10,470.00	19,926.66	11,400.00	170.30	165.68	125.11	8,591.18	-77.70	1,613.51	1,318.82	294.69	5.475	
19,100.00	10,470.00	20,026.66	11,400.00	172.15	167.59	125.11	8,691.18	-78.37	1,613.51	1,315.62	297.89	5.416	
19,200.00	10,470.00	20,126.66	11,400.00	174.01	169.50	125.11	8,791.18	-79.03	1,613.51	1,312.42	301.10	5.359	
19,300.00	10,470.00	20,226.66	11,400.00	175.86	171.40	125.11	8,891.18	-79.70	1,613.51	1,309.21	304.30	5.302	
19,400.00	10,470.00	20,326.66	11,400.00	177.71	173.31	125.11	8,991.17	-80.36	1,613.51	1,306.00	307.51	5.247	
19,500.00	10,470.00	20,426.66	11,400.00	179.57	175.22	125.11	9,091.17	-81.03	1,613.51	1,302.79	310.71	5.193	
19,600.00	10,470.00	20,526.66	11,400.00	181.43	177.13	125.11	9,191.17	-81.69	1,613.51	1,299.59	313.92	5.140	
19,700.00	10,470.00	20,626.66	11,400.00	183.29	179.04	125.11	9,291.17	-82.36	1,613.50	1,296.37	317.13	5.088	
19,800.00	10,470.00	20,726.66	11,400.00	185.15	180.94	125.11	9,391.17	-83.02	1,613.50	1,293.16	320.34	5.037	
19,900.00	10,470.00	20,826.66	11,400.00	187.01	182.85	125.11	9,491.16	-83.69	1,613.50	1,289.95	323.55	4.987	
20,000.00	10,470.00	20,926.66	11,400.00	188.87	184.76	125.11	9,591.16	-84.35	1,613.50	1,286.74	326.76	4.938	
20,100.00	10,470.00	21,026.66	11,400.00	190.74	186.67	125.11	9,691.16	-85.02	1,613.50	1,283.52	329.97	4.890	
20,200.00	10,470.00	21,126.66	11,400.00	192.60	188.58	125.11	9,791.16	-85.68	1,613.50	1,280.31	333.19	4.843	
20,300.00	10,470.00	21,226.66	11,400.00	194.46	190.49	125.11	9,891.15	-86.35	1,613.50	1,277.09	336.40	4.796	
20,400.00	10,470.00	21,326.66	11,400.00	196.33	192.40	125.11	9,991.15	-87.01	1,613.49	1,273.88	339.62	4.751	
20,500.00	10,470.00	21,426.66	11,400.00	198.20	194.31	125.11	10,091.15	-87.68	1,613.49	1,270.66	342.83	4.706	
20,600.00	10,470.00	21,526.66	11,400.00	200.07	196.21	125.11	10,191.15	-88.34	1,613.49	1,267.44	346.05	4.663	
20,683.27	10,470.00	21,609.93	11,400.00	201.52	197.80	125.11	10,274.42	-88.90	1,613.49	1,264.94	348.55	4.629	
20,686.73	10,470.00	21,610.61	11,400.00	201.58	197.82	125.11	10,275.10	-88.90	1,613.49	1,264.92	348.57	4.629	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 604H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
16,700.00	10,470.00	17,487.48	11,230.00	128.19	122.56	108.00	6,297.66	937.60	2,439.46	2,193.41	246.05	9.914	CC
16,800.00	10,470.00	17,587.48	11,230.00	130.00	124.43	108.00	6,397.66	936.95	2,439.47	2,189.87	249.60	9.774	
16,900.00	10,470.00	17,687.48	11,230.00	131.81	126.30	108.00	6,497.66	936.29	2,439.47	2,186.32	253.15	9.636	
17,000.00	10,470.00	17,787.48	11,230.00	133.62	128.17	108.00	6,597.66	935.64	2,439.48	2,182.78	256.70	9.503	
17,100.00	10,470.00	17,887.48	11,230.00	135.43	130.04	108.00	6,697.65	934.98	2,439.49	2,179.23	260.26	9.373	
17,200.00	10,470.00	17,987.48	11,230.00	137.25	131.92	108.00	6,797.65	934.32	2,439.50	2,175.68	263.82	9.247	
17,300.00	10,470.00	18,087.48	11,230.00	139.07	133.80	108.00	6,897.65	933.67	2,439.50	2,172.12	267.38	9.124	
17,400.00	10,470.00	18,187.48	11,230.00	140.89	135.67	108.00	6,997.65	933.01	2,439.51	2,168.56	270.95	9.004	
17,500.00	10,470.00	18,287.48	11,230.00	142.71	137.55	108.00	7,097.64	932.36	2,439.52	2,165.00	274.52	8.887	
17,600.00	10,470.00	18,387.48	11,230.00	144.54	139.43	108.00	7,197.64	931.70	2,439.53	2,161.44	278.09	8.772	
17,700.00	10,470.00	18,487.48	11,230.00	146.37	141.31	108.00	7,297.64	931.05	2,439.53	2,157.87	281.67	8.661	
17,800.00	10,470.00	18,587.48	11,230.00	148.20	143.19	108.00	7,397.64	930.39	2,439.54	2,154.30	285.24	8.553	
17,900.00	10,470.00	18,687.48	11,230.00	150.03	145.07	108.00	7,497.64	929.74	2,439.55	2,150.73	288.82	8.447	
18,000.00	10,470.00	18,787.48	11,230.00	151.86	146.96	108.00	7,597.63	929.08	2,439.56	2,147.15	292.40	8.343	
18,100.00	10,470.00	18,887.48	11,230.00	153.70	148.84	108.00	7,697.63	928.43	2,439.56	2,143.58	295.99	8.242	
18,200.00	10,470.00	18,987.48	11,230.00	155.54	150.72	108.00	7,797.63	927.77	2,439.57	2,140.00	299.57	8.144	
18,300.00	10,470.00	19,087.48	11,230.00	157.38	152.61	108.00	7,897.63	927.11	2,439.58	2,136.42	303.16	8.047	
18,400.00	10,470.00	19,187.48	11,230.00	159.22	154.49	108.00	7,997.63	926.46	2,439.59	2,132.84	306.75	7.953	
18,500.00	10,470.00	19,287.48	11,230.00	161.06	156.38	108.00	8,097.62	925.80	2,439.59	2,129.25	310.34	7.861	
18,600.00	10,470.00	19,387.48	11,230.00	162.91	158.27	108.00	8,197.62	925.15	2,439.60	2,125.67	313.93	7.771	
18,700.00	10,470.00	19,487.48	11,230.00	164.75	160.16	108.00	8,297.62	924.49	2,439.61	2,122.08	317.53	7.683	
18,800.00	10,470.00	19,587.48	11,230.00	166.60	162.04	108.00	8,397.62	923.84	2,439.62	2,118.49	321.13	7.597	
18,900.00	10,470.00	19,687.48	11,230.00	168.45	163.93	108.00	8,497.61	923.18	2,439.62	2,114.90	324.73	7.513	
19,000.00	10,470.00	19,787.48	11,230.00	170.30	165.82	108.00	8,597.61	922.53	2,439.63	2,111.30	328.33	7.431	
19,100.00	10,470.00	19,887.48	11,230.00	172.15	167.71	108.00	8,697.61	921.87	2,439.64	2,107.71	331.93	7.350	
19,200.00	10,470.00	19,987.48	11,230.00	174.01	169.60	108.00	8,797.61	921.22	2,439.64	2,104.11	335.53	7.271	
19,300.00	10,470.00	20,087.48	11,230.00	175.86	171.49	108.00	8,897.61	920.56	2,439.65	2,100.52	339.14	7.194	
19,400.00	10,470.00	20,187.48	11,230.00	177.71	173.39	108.00	8,997.60	919.90	2,439.66	2,096.92	342.74	7.118	
19,500.00	10,470.00	20,287.48	11,230.00	179.57	175.28	108.00	9,097.60	919.25	2,439.67	2,093.32	346.35	7.044	
19,600.00	10,470.00	20,387.48	11,230.00	181.43	177.17	108.00	9,197.60	918.59	2,439.67	2,089.71	349.96	6.971	
19,700.00	10,470.00	20,487.48	11,230.00	183.29	179.06	108.00	9,297.60	917.94	2,439.68	2,086.11	353.57	6.900	
19,800.00	10,470.00	20,587.48	11,230.00	185.15	180.96	108.00	9,397.60	917.28	2,439.69	2,082.51	357.18	6.830	
19,900.00	10,470.00	20,687.48	11,230.00	187.01	182.85	108.00	9,497.59	916.63	2,439.70	2,078.90	360.79	6.762	
20,000.00	10,470.00	20,787.48	11,230.00	188.87	184.75	108.00	9,597.59	915.97	2,439.70	2,075.29	364.41	6.695	
20,100.00	10,470.00	20,887.48	11,230.00	190.74	186.64	108.00	9,697.59	915.32	2,439.71	2,071.69	368.02	6.629	
20,200.00	10,470.00	20,987.48	11,230.00	192.60	188.54	108.00	9,797.59	914.66	2,439.72	2,068.08	371.64	6.565	
20,300.00	10,470.00	21,087.48	11,230.00	194.46	190.43	108.00	9,897.58	914.01	2,439.73	2,064.47	375.26	6.501	
20,400.00	10,470.00	21,187.48	11,230.00	196.33	192.33	108.00	9,997.58	913.35	2,439.73	2,060.86	378.88	6.439	
20,500.00	10,470.00	21,287.48	11,230.00	198.20	194.22	108.00	10,097.58	912.69	2,439.74	2,057.24	382.50	6.378	
20,600.00	10,470.00	21,387.48	11,230.00	200.07	196.12	108.00	10,197.58	912.04	2,439.75	2,053.63	386.12	6.319	
20,606.11	10,470.00	21,393.58	11,230.00	200.17	196.24	108.00	10,203.68	912.00	2,439.75	2,053.42	386.33	6.315	
20,686.73	10,470.00	21,470.20	11,230.00	201.58	197.70	108.00	10,280.29	911.50	2,439.76	2,050.78	388.98	6.272	ES, SF

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 704H - Wellbore #1 - Actual													Offset Site Error: 0.00 usft
Survey Program: 79-GYRO-NS, 3401-MWD+IGRF													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,900.00	2,888.85	2,892.46	2,892.33	8.45	10.33	-1.89	-69.09	-1,139.79	985.49	966.71	18.77	52.498	
3,000.00	2,987.33	2,988.42	2,988.29	8.83	10.67	-1.92	-69.01	-1,139.09	967.41	947.92	19.49	49.642	
3,100.00	3,085.81	3,086.10	3,085.96	9.21	11.01	-1.96	-69.05	-1,138.55	949.50	929.29	20.22	46.968	
3,200.00	3,184.30	3,183.19	3,183.06	9.61	11.35	-2.00	-69.03	-1,138.07	931.67	910.72	20.95	44.473	
3,300.00	3,282.78	3,278.25	3,278.11	10.00	11.59	-2.04	-69.12	-1,137.84	914.07	892.49	21.58	42.358	
3,400.00	3,381.26	3,372.94	3,372.80	10.40	11.79	-2.12	-69.71	-1,137.96	896.89	874.71	22.19	40.427	
3,500.00	3,479.74	3,471.91	3,471.76	10.81	11.90	-2.22	-70.65	-1,138.32	879.96	857.26	22.70	38.757	
3,600.00	3,578.22	3,566.69	3,566.54	11.22	11.96	-2.32	-71.57	-1,138.70	863.08	839.90	23.18	37.235	
3,700.00	3,676.70	3,660.85	3,660.69	11.63	12.02	-2.46	-72.96	-1,139.60	846.77	823.11	23.66	35.794	
3,800.00	3,775.18	3,758.71	3,758.53	12.05	12.09	-2.58	-74.11	-1,140.89	830.80	806.66	24.14	34.417	
3,900.00	3,873.66	3,859.26	3,859.07	12.47	12.17	-2.67	-74.64	-1,142.17	814.75	790.12	24.63	33.081	
4,000.00	3,972.14	3,956.99	3,956.79	12.89	12.25	-2.75	-75.10	-1,143.31	798.58	773.46	25.13	31.783	
4,100.00	4,070.62	4,057.59	4,057.38	13.32	12.34	-2.85	-75.73	-1,144.49	782.44	756.81	25.63	30.531	
4,200.00	4,169.10	4,158.99	4,158.78	13.74	12.42	-2.93	-75.96	-1,145.36	765.96	739.83	26.13	29.313	
4,300.00	4,267.58	4,261.64	4,261.43	14.17	12.50	-2.99	-75.81	-1,145.81	749.04	722.41	26.63	28.131	
4,400.00	4,366.06	4,360.63	4,360.42	14.60	12.56	-3.09	-76.20	-1,145.89	731.81	704.69	27.12	26.986	
4,500.00	4,464.54	4,458.63	4,458.42	15.03	12.65	-3.21	-76.80	-1,145.99	714.62	686.98	27.64	25.859	
4,600.00	4,563.02	4,563.13	4,562.91	15.46	12.71	-3.36	-77.45	-1,145.57	696.94	668.84	28.10	24.802	
4,700.00	4,661.51	4,659.46	4,659.23	15.90	12.76	-3.50	-78.04	-1,144.94	679.01	650.44	28.57	23.763	
4,800.00	4,759.99	4,752.13	4,751.91	16.33	12.82	-3.62	-78.50	-1,144.94	661.73	632.65	29.07	22.760	
4,900.00	4,858.47	4,847.41	4,847.19	16.77	12.91	-3.75	-78.93	-1,145.60	645.12	615.52	29.60	21.797	
5,000.00	4,956.95	4,944.06	4,943.83	17.21	13.01	-3.88	-79.38	-1,146.65	628.90	598.78	30.13	20.875	
5,100.00	5,055.43	5,041.94	5,041.70	17.65	13.10	-3.99	-79.50	-1,148.07	613.00	582.35	30.66	19.995	
5,200.00	5,153.91	5,145.91	5,145.65	18.09	13.17	-4.05	-78.94	-1,149.02	596.52	565.35	31.16	19.141	
5,300.00	5,252.39	5,242.92	5,242.66	18.53	13.23	-4.06	-77.95	-1,149.80	579.88	548.20	31.68	18.302	
5,400.00	5,350.87	5,341.24	5,340.98	18.97	13.29	-4.08	-77.01	-1,150.75	563.41	531.21	32.20	17.496	
5,500.00	5,449.35	5,440.45	5,440.17	19.41	13.35	-4.06	-75.69	-1,151.70	546.89	514.17	32.71	16.717	
5,600.00	5,547.83	5,535.37	5,535.08	19.85	13.41	-4.07	-74.76	-1,152.64	530.45	497.20	33.25	15.956	
5,700.00	5,646.31	5,626.82	5,626.49	20.30	13.53	-4.34	-76.22	-1,154.53	515.32	481.47	33.84	15.228	
5,800.00	5,744.79	5,720.29	5,719.82	20.74	13.70	-4.94	-80.48	-1,157.30	501.43	466.98	34.45	14.555	
5,900.00	5,843.27	5,814.74	5,814.05	21.18	13.85	-5.68	-85.83	-1,160.89	488.56	453.53	35.03	13.947	
6,000.00	5,941.75	5,911.06	5,910.08	21.63	13.99	-6.56	-92.04	-1,165.22	476.59	440.99	35.60	13.389	
6,100.00	6,040.23	6,007.76	6,006.44	22.08	14.15	-7.52	-98.62	-1,169.91	465.14	428.97	36.17	12.861	
6,200.00	6,138.71	6,104.99	6,103.27	22.52	14.32	-8.57	-105.64	-1,175.08	454.38	417.64	36.74	12.366	
6,300.00	6,237.20	6,203.39	6,201.24	22.97	14.50	-9.73	-113.11	-1,180.49	444.02	406.70	37.32	11.897	
6,400.00	6,335.68	6,300.37	6,297.76	23.41	14.68	-10.95	-120.75	-1,185.97	434.08	396.17	37.91	11.452	
6,500.00	6,434.16	6,398.00	6,394.94	23.86	14.88	-12.12	-127.69	-1,192.22	424.88	386.38	38.50	11.035	
6,571.01	6,504.08	6,431.00	6,427.82	24.18	14.95	-12.42	-129.30	-1,194.57	420.21	381.37	38.84	10.819 CC, ES, SF	
6,600.00	6,532.64	6,431.00	6,427.82	24.31	14.95	-12.42	-129.30	-1,194.57	421.21	382.42	38.79	10.858	
6,700.00	6,631.12	6,431.00	6,427.82	24.76	14.95	-12.42	-129.30	-1,194.57	439.57	401.86	37.71	11.658	
6,800.00	6,729.60	6,431.00	6,427.82	25.21	14.95	-12.42	-129.30	-1,194.57	478.56	442.87	35.69	13.409	
6,900.00	6,828.08	6,431.00	6,427.82	25.65	14.95	-12.42	-129.30	-1,194.57	533.68	500.24	33.44	15.961	
7,000.00	6,926.56	6,431.00	6,427.82	26.10	14.95	-12.42	-129.30	-1,194.57	600.51	569.12	31.39	19.128	
7,100.00	7,025.04	6,431.00	6,427.82	26.55	14.95	-12.42	-129.30	-1,194.57	675.58	645.87	29.72	22.733	
7,200.00	7,123.52	6,431.00	6,427.82	27.00	14.95	-12.42	-129.30	-1,194.57	756.45	728.03	28.41	26.623	
7,300.00	7,222.00	6,431.00	6,427.82	27.45	14.95	-12.42	-129.30	-1,194.57	841.43	814.01	27.43	30.679	
7,400.00	7,320.48	6,431.00	6,427.82	27.90	14.95	-12.42	-129.30	-1,194.57	929.41	902.72	26.70	34.815	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 704H - Wellbore #1 - Plan 4														Offset Site Error:	0.00 usft
Survey Program: 79-GYRO-NS, 3205-MWD+IGRF														Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
2,900.00	2,888.85	2,892.46	2,892.33	8.45	10.33	-1.89	-69.09	-1,139.79	985.49	966.71	18.77	52.498			
3,000.00	2,987.33	2,988.42	2,988.29	8.83	10.67	-1.92	-69.01	-1,139.09	967.41	947.92	19.49	49.642			
3,100.00	3,085.81	3,086.10	3,085.96	9.21	11.01	-1.96	-69.05	-1,138.55	949.50	929.29	20.22	46.968			
3,200.00	3,184.30	3,183.19	3,183.06	9.61	11.35	-2.00	-69.03	-1,138.07	931.67	910.72	20.95	44.473			
3,300.00	3,282.78	3,281.23	3,281.10	10.00	11.58	-2.03	-68.96	-1,137.72	913.95	892.38	21.57	42.372			
3,400.00	3,381.26	3,379.65	3,379.51	10.40	11.64	-2.07	-68.88	-1,137.36	896.24	874.20	22.03	40.676			
3,500.00	3,479.74	3,478.07	3,477.93	10.81	11.70	-2.11	-68.81	-1,137.01	878.53	856.03	22.50	39.049			
3,600.00	3,578.22	3,576.48	3,576.35	11.22	11.77	-2.15	-68.74	-1,136.66	860.81	837.84	22.98	37.466			
3,700.00	3,676.70	3,674.90	3,674.76	11.63	11.84	-2.19	-68.67	-1,136.30	843.10	819.64	23.46	35.937			
3,800.00	3,775.18	3,773.32	3,773.18	12.05	11.91	-2.23	-68.59	-1,135.95	825.39	801.44	23.95	34.462			
3,900.00	3,873.66	3,871.74	3,871.59	12.47	11.99	-2.27	-68.52	-1,135.60	807.68	783.24	24.45	33.040			
4,000.00	3,972.14	3,970.15	3,970.01	12.89	12.07	-2.32	-68.45	-1,135.24	789.97	765.03	24.95	31.667			
4,100.00	4,070.62	4,068.57	4,068.43	13.32	12.15	-2.37	-68.38	-1,134.89	772.26	746.81	25.45	30.343			
4,200.00	4,169.10	4,166.99	4,166.84	13.74	12.23	-2.42	-68.30	-1,134.54	754.55	728.59	25.96	29.066			
4,300.00	4,267.58	4,265.40	4,265.26	14.17	12.32	-2.47	-68.23	-1,134.18	736.85	710.37	26.47	27.834			
4,400.00	4,366.06	4,363.82	4,363.68	14.60	12.41	-2.53	-68.16	-1,133.83	719.14	692.15	26.99	26.645			
4,500.00	4,464.54	4,462.24	4,462.09	15.03	12.50	-2.59	-68.09	-1,133.48	701.43	673.92	27.51	25.496			
4,600.00	4,563.02	4,560.66	4,560.51	15.46	12.59	-2.65	-68.01	-1,133.12	683.73	655.69	28.04	24.388			
4,700.00	4,661.51	4,659.07	4,658.93	15.90	12.69	-2.71	-67.94	-1,132.77	666.02	637.46	28.56	23.318			
4,800.00	4,759.99	4,757.49	4,757.34	16.33	12.78	-2.78	-67.87	-1,132.42	648.32	619.22	29.09	22.284			
4,900.00	4,858.47	4,855.91	4,855.76	16.77	12.88	-2.86	-67.80	-1,132.06	630.61	600.99	29.63	21.285			
5,000.00	4,956.95	4,954.33	4,954.18	17.21	12.98	-2.93	-67.72	-1,131.71	612.91	582.75	30.16	20.319			
5,100.00	5,055.43	5,052.74	5,052.59	17.65	13.08	-3.01	-67.65	-1,131.36	595.21	564.51	30.70	19.385			
5,200.00	5,153.91	5,151.16	5,151.01	18.09	13.19	-3.10	-67.58	-1,131.00	577.51	546.26	31.25	18.482			
5,300.00	5,252.39	5,249.58	5,249.43	18.53	13.30	-3.19	-67.51	-1,130.65	559.81	528.02	31.79	17.609			
5,400.00	5,350.87	5,347.99	5,347.84	18.97	13.40	-3.29	-67.43	-1,130.30	542.11	509.77	32.34	16.764			
5,500.00	5,449.35	5,446.41	5,446.26	19.41	13.51	-3.39	-67.36	-1,129.94	524.42	491.53	32.89	15.945			
5,600.00	5,547.83	5,544.83	5,544.68	19.85	13.61	-3.51	-67.29	-1,129.59	506.72	473.30	33.43	15.159			
5,700.00	5,646.31	5,640.82	5,640.67	20.30	13.66	-3.70	-67.92	-1,129.40	489.26	455.33	33.93	14.418			
5,800.00	5,744.79	5,736.77	5,736.59	20.74	13.71	-4.10	-70.12	-1,129.57	472.33	437.90	34.43	13.719			
5,900.00	5,843.27	5,832.77	5,832.51	21.18	13.74	-4.72	-73.88	-1,130.09	455.97	421.06	34.91	13.062			
6,000.00	5,941.75	5,928.75	5,928.34	21.63	13.77	-5.59	-79.21	-1,130.97	440.23	404.86	35.37	12.447			
6,100.00	6,040.23	6,026.46	6,025.81	22.08	13.79	-6.69	-85.85	-1,132.14	425.06	389.26	35.80	11.875			
6,200.00	6,138.71	6,124.95	6,124.06	22.52	13.84	-7.89	-92.62	-1,133.33	410.09	373.86	36.23	11.319			
6,300.00	6,237.20	6,223.44	6,222.31	22.97	13.90	-9.18	-99.38	-1,134.52	395.30	358.64	36.66	10.783			
6,400.00	6,335.68	6,321.93	6,320.56	23.41	13.97	-10.57	-106.15	-1,135.72	380.73	343.66	37.07	10.270			
6,500.00	6,434.16	6,417.56	6,415.97	23.86	14.02	-12.00	-112.58	-1,137.15	366.64	329.17	37.47	9.785			
6,600.00	6,532.64	6,511.94	6,510.14	24.31	14.07	-13.34	-118.25	-1,139.85	353.92	316.04	37.88	9.344			
6,700.00	6,631.12	6,606.79	6,604.76	24.76	14.11	-14.61	-123.23	-1,143.95	342.60	304.33	38.27	8.952			
6,800.00	6,729.60	6,702.04	6,699.76	25.21	14.14	-15.77	-127.50	-1,149.47	332.63	293.97	38.66	8.604			
6,900.00	6,828.08	6,797.65	6,795.05	25.65	14.16	-16.80	-131.05	-1,156.43	323.96	284.91	39.05	8.296			
7,000.00	6,926.56	6,893.57	6,890.56	26.10	14.17	-17.68	-133.87	-1,164.82	316.53	277.08	39.45	8.023			
7,100.00	7,025.04	6,989.75	6,986.21	26.55	14.18	-18.37	-135.94	-1,174.66	310.31	270.44	39.87	7.782			
7,200.00	7,123.52	7,086.13	7,081.91	27.00	14.20	-18.87	-137.27	-1,185.94	305.25	264.94	40.31	7.572			
7,300.00	7,222.00	7,182.68	7,177.62	27.45	14.21	-19.15	-137.85	-1,198.68	301.32	260.55	40.77	7.391			
7,400.00	7,320.48	7,282.62	7,276.59	27.90	14.23	-19.32	-138.05	-1,212.59	297.94	256.71	41.24	7.225			
7,500.00	7,418.96	7,382.56	7,375.55	28.35	14.28	-19.50	-138.26	-1,226.50	294.57	252.84	41.73	7.059			
7,600.00	7,517.44	7,482.50	7,474.52	28.80	14.34	-19.68	-138.47	-1,240.41	291.20	248.96	42.24	6.894			
7,700.00	7,615.92	7,582.43	7,573.48	29.26	14.42	-19.87	-138.68	-1,254.32	287.83	245.07	42.76	6.731			
7,800.00	7,714.41	7,682.37	7,672.45	29.71	14.51	-20.07	-138.89	-1,268.23	284.47	241.18	43.29	6.571			
7,900.00	7,812.89	7,782.31	7,771.42	30.16	14.61	-20.26	-139.09	-1,282.14	281.11	237.27	43.84	6.412			
8,000.00	7,911.37	7,882.25	7,870.38	30.61	14.72	-20.46	-139.30	-1,296.05	277.75	233.36	44.39	6.257			

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 704H - Wellbore #1 - Plan 4													Offset Site Error: 0.00 usft
Survey Program: 79-GYRO-NS, 3205-MWD+IGRF													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
8,100.00	8,009.85	7,982.19	7,969.35	31.06	14.83	-20.67	-139.51	-1,309.96	274.40	229.44	44.96	6.103	
8,200.00	8,108.33	8,082.13	8,068.31	31.51	14.96	-20.88	-139.72	-1,323.87	271.05	225.52	45.53	5.953	
8,300.00	8,206.81	8,182.07	8,167.28	31.97	15.10	-21.10	-139.93	-1,337.78	267.70	221.58	46.12	5.805	
8,400.00	8,305.29	8,282.01	8,266.24	32.42	15.24	-21.32	-140.14	-1,351.69	264.36	217.65	46.71	5.660	
8,500.00	8,403.77	8,381.95	8,365.21	32.87	15.40	-21.55	-140.34	-1,365.60	261.02	213.71	47.31	5.517	
8,600.00	8,502.25	8,481.88	8,464.18	33.32	15.56	-21.79	-140.55	-1,379.51	257.69	209.76	47.92	5.377	
8,700.00	8,600.73	8,581.82	8,563.14	33.78	15.73	-22.03	-140.76	-1,393.42	254.36	205.82	48.54	5.240	
8,800.00	8,699.21	8,681.76	8,662.11	34.23	15.91	-22.27	-140.97	-1,407.33	251.03	201.87	49.17	5.106	
8,900.00	8,797.69	8,781.70	8,761.07	34.68	16.10	-22.53	-141.18	-1,421.24	247.71	197.92	49.80	4.974	
9,000.00	8,896.17	8,881.64	8,860.04	35.14	16.30	-22.79	-141.38	-1,435.15	244.40	193.96	50.43	4.846	
9,096.99	8,991.68	8,978.57	8,956.02	35.58	16.50	-23.05	-141.59	-1,448.64	241.19	190.13	51.06	4.724	
9,100.00	8,994.65	8,981.58	8,959.00	35.59	16.51	-23.05	-141.59	-1,449.06	241.09	190.01	51.08	4.720	
9,200.00	9,093.36	9,081.55	9,058.01	36.04	16.72	-23.19	-141.80	-1,462.97	239.06	187.33	51.73	4.621	
9,234.33	9,127.34	9,115.88	9,092.00	36.20	16.80	-23.18	-141.87	-1,467.75	238.92	186.95	51.97	4.598 CC, ES	
9,300.00	9,192.46	9,181.55	9,157.03	36.50	16.95	-23.09	-142.01	-1,476.89	239.44	187.01	52.42	4.567	
9,400.00	9,291.87	9,281.50	9,256.00	36.95	17.18	-22.76	-142.22	-1,490.80	242.23	189.10	53.12	4.560 SF	
9,500.00	9,391.53	9,381.33	9,354.86	37.36	17.42	-22.22	-142.43	-1,504.70	247.45	193.62	53.83	4.597	
9,600.00	9,491.37	9,480.97	9,453.54	37.75	17.67	-21.50	-142.63	-1,518.57	255.12	200.60	54.52	4.679	
9,700.00	9,591.32	9,580.37	9,551.97	38.08	17.93	-20.64	-142.84	-1,532.40	265.27	210.08	55.19	4.807	
9,763.68	9,655.00	9,643.50	9,614.48	38.17	18.09	-111.90	-142.97	-1,541.19	273.04	217.54	55.51	4.919	
9,800.00	9,691.32	9,679.47	9,650.10	38.17	18.19	-111.52	-143.05	-1,546.19	277.77	222.13	55.64	4.992	
9,900.00	9,791.32	9,778.49	9,748.16	38.19	18.45	-110.56	-143.25	-1,559.98	290.85	234.82	56.03	5.191	
10,000.00	9,891.32	9,877.52	9,846.22	38.21	18.73	-109.67	-143.46	-1,573.76	304.01	247.59	56.42	5.388	
10,098.68	9,990.00	9,978.24	9,945.99	38.23	18.99	-108.86	-143.67	-1,587.59	316.89	260.11	56.78	5.581	
10,100.00	9,991.32	9,979.66	9,947.40	38.23	19.00	-99.76	-143.67	-1,587.78	317.05	260.27	56.78	5.584	
10,125.00	10,016.31	10,006.61	9,974.13	38.24	19.07	-99.34	-143.72	-1,591.16	320.16	263.31	56.85	5.632	
10,150.00	10,041.22	10,033.54	10,000.87	38.26	19.15	-99.18	-143.77	-1,594.35	323.31	266.41	56.90	5.682	
10,175.00	10,065.99	10,060.38	10,027.55	38.27	19.24	-99.26	-143.81	-1,597.34	326.51	269.58	56.93	5.735	
10,200.00	10,090.56	10,087.05	10,054.07	38.29	19.32	-99.57	-143.85	-1,600.12	329.79	272.85	56.94	5.792	
10,225.00	10,114.85	10,113.47	10,080.36	38.31	19.40	-100.09	-143.89	-1,602.70	333.19	276.26	56.93	5.853	
10,250.00	10,138.80	10,139.55	10,106.34	38.33	19.48	-100.81	-143.93	-1,605.07	336.75	279.86	56.89	5.919	
10,275.00	10,162.34	10,165.23	10,131.92	38.35	19.57	-101.68	-143.96	-1,607.23	340.54	283.72	56.83	5.993	
10,300.00	10,185.41	10,190.41	10,157.03	38.37	19.65	-102.68	-143.99	-1,609.17	344.65	287.91	56.73	6.075	
10,325.00	10,207.94	10,215.03	10,181.59	38.39	19.72	-103.78	-144.01	-1,610.92	349.14	292.54	56.60	6.168	
10,350.00	10,229.88	10,239.01	10,205.52	38.41	19.80	-104.95	-144.04	-1,612.47	354.11	297.67	56.44	6.274	
10,375.00	10,251.16	10,262.28	10,228.75	38.44	19.87	-106.14	-144.06	-1,613.82	359.66	303.40	56.25	6.394	
10,400.00	10,271.72	10,284.78	10,251.21	38.46	19.94	-107.32	-144.08	-1,615.00	365.86	309.82	56.03	6.529	
10,425.00	10,291.51	10,306.42	10,272.84	38.49	20.00	-108.46	-144.09	-1,616.01	372.80	317.01	55.79	6.682	
10,450.00	10,310.48	10,327.16	10,293.55	38.52	20.06	-109.51	-144.10	-1,616.86	380.57	325.04	55.52	6.854	
10,475.00	10,328.56	10,346.93	10,313.31	38.55	20.11	-110.46	-144.11	-1,617.57	389.22	333.98	55.24	7.046	
10,500.00	10,345.72	10,365.67	10,332.04	38.59	20.16	-111.26	-144.12	-1,618.14	398.81	343.86	54.94	7.258	
10,525.00	10,361.91	10,383.33	10,349.70	38.63	20.21	-111.88	-144.13	-1,618.60	409.38	354.73	54.65	7.491	
10,550.00	10,377.07	10,399.87	10,366.23	38.67	20.26	-112.30	-144.14	-1,618.96	420.96	366.60	54.36	7.745	
10,562.40	10,384.20	10,407.64	10,374.01	38.69	20.27	-112.42	-144.14	-1,619.10	427.08	372.88	54.20	7.879	
10,575.00	10,391.18	10,415.24	10,381.60	38.72	20.27	-112.86	-144.14	-1,619.22	433.58	379.53	54.05	8.022	
10,600.00	10,404.22	10,429.42	10,395.79	38.78	20.29	-113.47	-144.14	-1,619.41	447.43	393.66	53.77	8.322	
10,625.00	10,416.17	10,442.40	10,408.76	38.84	20.30	-113.73	-144.14	-1,619.54	462.48	408.97	53.50	8.644	
10,650.00	10,426.99	10,454.13	10,420.49	38.90	20.32	-113.59	-144.15	-1,619.62	478.67	425.40	53.27	8.987	
10,675.00	10,436.64	10,464.59	10,430.95	38.98	20.33	-113.03	-144.15	-1,619.66	495.93	442.88	53.05	9.348	
10,700.00	10,445.11	10,473.76	10,440.12	39.06	20.34	-112.00	-144.15	-1,619.67	514.18	461.32	52.86	9.727	
10,725.00	10,452.37	10,481.01	10,447.37	39.15	20.34	-110.35	-144.15	-1,619.67	533.34	480.65	52.69	10.121	
10,750.00	10,458.40	10,487.04	10,453.40	39.24	20.34	-108.10	-144.15	-1,619.67	553.32	500.77	52.55	10.529	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 704H - Wellbore #1 - Plan 4												Offset Site Error:	0.00 usft
Survey Program: 79-GYRO-NS, 3205-MWD+IGRF												Offset Well Error:	0.50 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,775.00	10,463.19	10,491.83	10,458.19	39.35	20.34	-105.19	-144.15	-1,619.67	574.01	521.58	52.43	10.949	
10,800.00	10,466.71	10,495.35	10,461.71	39.47	20.34	-101.51	-144.15	-1,619.67	595.32	543.00	52.32	11.378	
10,825.00	10,468.97	10,497.61	10,463.97	39.59	20.34	-97.00	-144.15	-1,619.67	617.16	564.92	52.24	11.815	
10,850.00	10,469.95	10,498.59	10,464.95	39.73	20.34	-91.61	-144.15	-1,619.67	639.42	587.26	52.16	12.258	
10,856.73	10,470.00	10,498.64	10,465.00	39.76	20.34	-90.00	-144.15	-1,619.67	645.48	593.33	52.14	12.379	
10,900.00	10,470.00	10,498.64	10,465.00	40.02	20.34	-90.00	-144.15	-1,619.67	684.72	632.67	52.05	13.156	
11,000.00	10,470.00	10,498.64	10,465.00	40.69	20.34	-90.00	-144.15	-1,619.67	777.06	725.17	51.89	14.976	
11,100.00	10,470.00	10,498.64	10,465.00	41.46	20.34	-90.00	-144.15	-1,619.67	871.09	819.29	51.80	16.818	
11,200.00	10,470.00	10,498.64	10,465.00	42.32	20.34	-90.00	-144.15	-1,619.67	966.32	914.58	51.74	18.675	
15,700.00	10,470.00	16,705.36	11,456.25	110.32	104.88	-164.23	5,271.89	-1,655.63	1,030.07	926.15	103.92	9.912	
15,800.00	10,470.00	16,805.36	11,457.13	112.09	106.75	-164.24	5,371.88	-1,656.30	1,030.92	925.35	105.57	9.765	
15,900.00	10,470.00	16,905.36	11,458.01	113.86	108.63	-164.25	5,471.88	-1,656.96	1,031.76	924.54	107.22	9.623	
16,000.00	10,470.00	17,005.36	11,458.89	115.64	110.50	-164.27	5,571.87	-1,657.63	1,032.61	923.73	108.88	9.484	
16,100.00	10,470.00	17,105.36	11,459.77	117.42	112.38	-164.28	5,671.87	-1,658.29	1,033.46	922.91	110.54	9.349	
16,200.00	10,470.00	17,205.36	11,460.65	119.21	114.26	-164.29	5,771.86	-1,658.95	1,034.30	922.09	112.21	9.217	
16,300.00	10,470.00	17,305.36	11,461.53	121.00	116.14	-164.31	5,871.86	-1,659.62	1,035.15	921.26	113.88	9.090	
16,400.00	10,470.00	17,405.36	11,462.41	122.79	118.02	-164.32	5,971.85	-1,660.28	1,035.99	920.43	115.56	8.965	
16,500.00	10,470.00	17,505.36	11,463.28	124.59	119.90	-164.33	6,071.85	-1,660.95	1,036.84	919.60	117.24	8.844	
16,600.00	10,470.00	17,605.37	11,464.16	126.39	121.78	-164.35	6,171.84	-1,661.61	1,037.68	918.76	118.92	8.726	
16,700.00	10,470.00	17,705.37	11,465.04	128.19	123.67	-164.36	6,271.84	-1,662.27	1,038.53	917.92	120.61	8.611	
16,800.00	10,470.00	17,805.37	11,465.91	130.00	125.55	-164.37	6,371.83	-1,662.94	1,039.37	917.08	122.30	8.499	
16,900.00	10,470.00	17,905.37	11,466.79	131.81	127.44	-164.39	6,471.83	-1,663.60	1,040.21	916.23	123.99	8.390	
17,000.00	10,470.00	18,005.37	11,467.66	133.62	129.33	-164.40	6,571.82	-1,664.27	1,041.06	915.38	125.68	8.283	
17,100.00	10,470.00	18,105.37	11,468.54	135.43	131.21	-164.41	6,671.81	-1,664.93	1,041.90	914.52	127.38	8.180	
17,200.00	10,470.00	18,205.37	11,469.41	137.25	133.10	-164.42	6,771.81	-1,665.59	1,042.74	913.67	129.08	8.078	
17,300.00	10,470.00	18,305.37	11,470.29	139.07	134.99	-164.44	6,871.80	-1,666.26	1,043.58	912.81	130.78	7.980	
17,400.00	10,470.00	18,405.37	11,471.16	140.89	136.88	-164.45	6,971.80	-1,666.92	1,044.43	911.94	132.48	7.883	
17,500.00	10,470.00	18,505.37	11,472.03	142.71	138.77	-164.46	7,071.79	-1,667.59	1,045.27	911.08	134.19	7.790	
17,600.00	10,470.00	18,605.37	11,472.90	144.54	140.66	-164.48	7,171.79	-1,668.25	1,046.11	910.21	135.90	7.698	
17,700.00	10,470.00	18,705.38	11,473.78	146.37	142.55	-164.49	7,271.78	-1,668.91	1,046.95	909.34	137.61	7.608	
17,800.00	10,470.00	18,805.38	11,474.65	148.20	144.45	-164.50	7,371.78	-1,669.58	1,047.79	908.47	139.32	7.521	
17,900.00	10,470.00	18,905.36	11,475.52	150.03	146.34	-164.51	7,471.75	-1,670.24	1,048.63	907.60	141.03	7.436	
18,000.00	10,470.00	19,005.33	11,476.39	151.86	148.23	-164.53	7,571.72	-1,670.91	1,049.47	906.73	142.74	7.352	
18,100.00	10,470.00	19,105.31	11,477.26	153.70	150.12	-164.54	7,671.69	-1,671.57	1,050.31	905.85	144.46	7.271	
18,200.00	10,470.00	19,205.28	11,478.14	155.54	152.02	-164.55	7,771.66	-1,672.23	1,051.16	904.98	146.18	7.191	
18,300.00	10,470.00	19,305.26	11,479.02	157.38	153.91	-164.56	7,871.63	-1,672.90	1,052.00	904.11	147.89	7.113	
18,400.00	10,470.00	19,412.48	11,479.73	159.22	155.94	-164.57	7,978.84	-1,673.61	1,052.65	903.02	149.62	7.035	
18,500.00	10,470.00	19,512.48	11,479.90	161.06	157.84	-164.58	8,078.84	-1,674.27	1,052.81	901.45	151.36	6.956	
18,600.00	10,470.00	19,612.48	11,480.07	162.91	159.73	-164.58	8,178.84	-1,674.93	1,052.97	899.87	153.10	6.878	
18,700.00	10,470.00	19,712.48	11,480.24	164.75	161.63	-164.58	8,278.84	-1,675.59	1,053.14	898.29	154.85	6.801	
18,800.00	10,470.00	19,812.48	11,480.40	166.60	163.53	-164.58	8,378.83	-1,676.26	1,053.30	896.71	156.59	6.726	
18,900.00	10,470.00	19,912.48	11,480.57	168.45	165.42	-164.59	8,478.83	-1,676.92	1,053.46	895.13	158.33	6.653	
19,000.00	10,470.00	20,012.48	11,480.74	170.30	167.32	-164.59	8,578.83	-1,677.58	1,053.63	893.55	160.08	6.582	
19,100.00	10,470.00	20,112.48	11,480.91	172.15	169.22	-164.59	8,678.83	-1,678.24	1,053.79	891.96	161.83	6.512	
19,200.00	10,470.00	20,212.48	11,481.08	174.01	171.12	-164.59	8,778.82	-1,678.90	1,053.95	890.37	163.58	6.443	
19,300.00	10,470.00	20,312.48	11,481.25	175.86	173.02	-164.60	8,878.82	-1,679.57	1,054.12	888.79	165.33	6.376	
19,400.00	10,470.00	20,412.48	11,481.42	177.71	174.92	-164.60	8,978.82	-1,680.23	1,054.28	887.20	167.08	6.310	
19,500.00	10,470.00	20,512.48	11,481.59	179.57	176.82	-164.60	9,078.82	-1,680.89	1,054.44	885.60	168.84	6.245	
19,600.00	10,470.00	20,612.48	11,481.76	181.43	178.72	-164.60	9,178.81	-1,681.55	1,054.61	884.01	170.59	6.182	
19,700.00	10,470.00	20,712.48	11,481.93	183.29	180.62	-164.61	9,278.81	-1,682.21	1,054.77	882.42	172.35	6.120	
19,800.00	10,470.00	20,812.48	11,482.10	185.15	182.52	-164.61	9,378.81	-1,682.88	1,054.93	880.83	174.11	6.059	
19,900.00	10,470.00	20,912.47	11,482.27	187.01	184.42	-164.61	9,478.81	-1,683.54	1,055.09	879.23	175.86	5.999	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 704H - Wellbore #1 - Plan 4													Offset Site Error: 0.00 usft
Survey Program: 79-GYRO-NS, 3205-MWD+IGRF													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,000.00	10,470.00	21,012.47	11,482.44	188.87	186.32	-164.61	9,578.81	-1,684.20	1,055.26	877.63	177.62	5.941	
20,100.00	10,470.00	21,112.47	11,482.61	190.74	188.22	-164.62	9,678.80	-1,684.86	1,055.42	876.04	179.38	5.884	
20,200.00	10,470.00	21,212.47	11,482.78	192.60	190.12	-164.62	9,778.80	-1,685.52	1,055.58	874.44	181.15	5.827	
20,300.00	10,470.00	21,312.98	11,482.94	194.46	192.04	-164.62	9,879.30	-1,686.20	1,055.74	872.83	182.91	5.772	
20,400.00	10,470.00	21,412.47	11,483.07	196.33	193.93	-164.62	9,978.79	-1,686.88	1,055.88	871.20	184.68	5.717	
20,500.00	10,470.00	21,512.47	11,483.24	198.20	195.83	-164.62	10,078.79	-1,687.54	1,056.04	869.60	186.44	5.664	
20,600.00	10,470.00	21,612.47	11,483.41	200.07	197.73	-164.63	10,178.79	-1,688.20	1,056.20	868.00	188.20	5.612	
20,686.73	10,470.00	21,699.21	11,483.56	201.58	199.38	-164.63	10,265.52	-1,688.78	1,056.34	866.89	189.46	5.576	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Gavilon Fed Com 708H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,700.00	10,470.00	19,673.76	11,440.00	164.75	158.74	107.91	8,301.95	1,584.49	3,131.90	2,818.17	313.73	9.983 CC	
18,800.00	10,470.00	19,773.76	11,440.00	166.60	160.65	107.91	8,401.94	1,583.83	3,131.91	2,814.56	317.35	9.869	
18,900.00	10,470.00	19,873.76	11,440.00	168.45	162.55	107.91	8,501.94	1,583.18	3,131.92	2,810.96	320.96	9.758	
19,000.00	10,470.00	19,973.76	11,440.00	170.30	164.46	107.91	8,601.94	1,582.52	3,131.92	2,807.35	324.58	9.649	
19,100.00	10,470.00	20,073.76	11,440.00	172.15	166.37	107.91	8,701.94	1,581.87	3,131.93	2,803.74	328.19	9.543	
19,200.00	10,470.00	20,173.76	11,440.00	174.01	168.28	107.91	8,801.93	1,581.21	3,131.94	2,800.13	331.81	9.439	
19,300.00	10,470.00	20,273.76	11,440.00	175.86	170.18	107.91	8,901.93	1,580.55	3,131.95	2,796.51	335.43	9.337	
19,400.00	10,470.00	20,373.76	11,440.00	177.71	172.09	107.91	9,001.93	1,579.90	3,131.95	2,792.90	339.05	9.237	
19,500.00	10,470.00	20,473.76	11,440.00	179.57	174.00	107.91	9,101.93	1,579.24	3,131.96	2,789.29	342.67	9.140	
19,600.00	10,470.00	20,573.76	11,440.00	181.43	175.91	107.91	9,201.93	1,578.59	3,131.97	2,785.67	346.30	9.044	
19,700.00	10,470.00	20,673.76	11,440.00	183.29	177.82	107.91	9,301.92	1,577.93	3,131.98	2,782.05	349.92	8.951	
19,800.00	10,470.00	20,773.76	11,440.00	185.15	179.72	107.91	9,401.92	1,577.28	3,131.98	2,778.44	353.55	8.859	
19,900.00	10,470.00	20,873.76	11,440.00	187.01	181.63	107.91	9,501.92	1,576.62	3,131.99	2,774.82	357.17	8.769	
20,000.00	10,470.00	20,973.76	11,440.00	188.87	183.54	107.91	9,601.92	1,575.97	3,132.00	2,771.20	360.80	8.681	
20,100.00	10,470.00	21,073.76	11,440.00	190.74	185.45	107.91	9,701.92	1,575.31	3,132.01	2,767.58	364.43	8.594	
20,200.00	10,470.00	21,173.76	11,440.00	192.60	187.36	107.91	9,801.91	1,574.66	3,132.01	2,763.96	368.06	8.510	
20,300.00	10,470.00	21,273.76	11,440.00	194.46	189.27	107.91	9,901.91	1,574.00	3,132.02	2,760.33	371.69	8.427	
20,400.00	10,470.00	21,373.76	11,440.00	196.33	191.18	107.91	10,001.91	1,573.34	3,132.03	2,756.71	375.32	8.345	
20,500.00	10,470.00	21,473.76	11,440.00	198.20	193.08	107.91	10,101.91	1,572.69	3,132.04	2,753.09	378.95	8.265	
20,600.00	10,470.00	21,573.76	11,440.00	200.07	194.99	107.91	10,201.90	1,572.03	3,132.04	2,749.46	382.58	8.187	
20,605.62	10,470.00	21,579.38	11,440.00	200.16	195.10	107.91	10,207.52	1,572.00	3,132.04	2,749.27	382.77	8.182	
20,686.73	10,470.00	21,655.68	11,440.00	201.58	196.56	107.91	10,283.82	1,571.50	3,132.05	2,746.60	385.45	8.126 ES, SF	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Gavilon Fed Com Pads (Grid) - Tomahawk 28 Federal Com 001 - Wellbore #1 - Actual												Offset Site Error:	0.00 usft
Survey Program:		109-INC-ONLY								Rule Assigned:		Offset Well Error:	15.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
16,600.00	10,470.00	10,411.00	10,409.58	126.39	212.29	91.52	8,725.12	-78.46	2,857.41	2,566.30	291.11	9.816	
16,700.00	10,470.00	10,375.87	10,374.50	128.19	211.38	90.00	8,725.12	-78.46	2,768.89	2,476.38	292.51	9.466	
16,800.00	10,470.00	10,375.87	10,374.50	130.00	211.38	90.00	8,725.12	-78.46	2,681.41	2,386.32	295.09	9.087	
16,900.00	10,470.00	10,375.87	10,374.50	131.81	211.38	90.00	8,725.12	-78.46	2,594.83	2,297.00	297.83	8.712	
17,000.00	10,470.00	10,422.42	10,421.03	133.62	212.59	92.02	8,724.89	-78.46	2,509.50	2,207.36	302.14	8.306	
17,100.00	10,470.00	10,413.39	10,412.01	135.43	212.36	91.63	8,725.07	-78.46	2,425.04	2,120.10	304.94	7.952	
17,200.00	10,470.00	10,406.78	10,405.41	137.25	212.18	91.34	8,725.19	-78.46	2,341.80	2,033.81	307.99	7.603	
17,300.00	10,470.00	10,401.73	10,400.36	139.07	212.05	91.12	8,725.26	-78.46	2,259.91	1,948.64	311.27	7.260	
17,400.00	10,470.00	10,397.75	10,396.37	140.89	211.95	90.95	8,725.31	-78.46	2,179.54	1,864.75	314.78	6.924	
17,500.00	10,470.00	10,394.52	10,393.15	142.71	211.86	90.81	8,725.35	-78.46	2,100.84	1,782.33	318.51	6.596	
17,600.00	10,470.00	10,391.86	10,390.49	144.54	211.79	90.69	8,725.38	-78.46	2,024.03	1,701.56	322.47	6.277	
17,700.00	10,470.00	10,389.63	10,388.25	146.37	211.74	90.60	8,725.40	-78.46	1,949.32	1,622.68	326.64	5.968	
17,800.00	10,470.00	10,387.72	10,386.35	148.20	211.69	90.51	8,725.42	-78.46	1,876.97	1,545.95	331.01	5.670	
17,900.00	10,470.00	10,386.08	10,384.71	150.03	211.64	90.44	8,725.44	-78.46	1,807.25	1,471.66	335.59	5.385	
18,000.00	10,470.00	10,384.65	10,383.28	151.86	211.61	90.38	8,725.45	-78.46	1,740.49	1,400.16	340.33	5.114	
18,100.00	10,470.00	10,383.40	10,382.03	153.70	211.57	90.33	8,725.46	-78.46	1,677.03	1,331.82	345.21	4.858	
18,200.00	10,470.00	10,382.29	10,380.92	155.54	211.54	90.28	8,725.46	-78.46	1,617.27	1,267.10	350.17	4.618	
18,300.00	10,470.00	10,381.30	10,379.93	157.38	211.52	90.24	8,725.47	-78.46	1,561.64	1,206.47	355.16	4.397	
18,400.00	10,470.00	10,380.41	10,379.04	159.22	211.49	90.20	8,725.48	-78.46	1,510.58	1,150.49	360.09	4.195	
18,500.00	10,470.00	10,379.60	10,378.23	161.06	211.47	90.16	8,725.48	-78.46	1,464.57	1,099.72	364.85	4.014	
18,600.00	10,470.00	10,378.88	10,377.51	162.91	211.45	90.13	8,725.48	-78.46	1,424.12	1,054.79	369.33	3.856	
18,700.00	10,470.00	10,378.21	10,376.84	164.75	211.44	90.10	8,725.49	-78.46	1,389.69	1,016.31	373.39	3.722	
18,800.00	10,470.00	10,377.61	10,376.24	166.60	211.42	90.08	8,725.49	-78.46	1,361.76	984.88	376.88	3.613	
18,900.00	10,470.00	10,377.05	10,375.68	168.45	211.41	90.05	8,725.49	-78.46	1,340.71	961.04	379.67	3.531	
19,000.00	10,470.00	10,376.54	10,375.17	170.30	211.39	90.03	8,725.50	-78.46	1,326.89	945.25	381.64	3.477	
19,100.00	10,470.00	10,376.06	10,374.69	172.15	211.38	90.01	8,725.50	-78.46	1,320.52	937.81	382.71	3.450	
19,134.34	10,470.00	10,375.91	10,374.54	172.79	211.38	90.00	8,725.50	-78.46	1,320.08	937.22	382.86	3.448	CC, ES, SF
19,200.00	10,470.00	10,375.62	10,374.25	174.01	211.37	89.99	8,725.50	-78.46	1,321.71	938.88	382.83	3.452	
19,300.00	10,470.00	10,375.21	10,373.84	175.86	211.36	89.97	8,725.50	-78.46	1,330.43	948.43	382.00	3.483	
19,400.00	10,470.00	10,374.83	10,373.46	177.71	211.35	89.95	8,725.50	-78.46	1,346.54	966.27	380.27	3.541	
19,500.00	10,470.00	10,374.47	10,373.11	179.57	211.34	89.94	8,725.51	-78.46	1,369.78	992.05	377.73	3.626	
19,600.00	10,470.00	10,374.14	10,372.77	181.43	211.33	89.92	8,725.51	-78.46	1,399.80	1,025.28	374.51	3.738	
19,700.00	10,470.00	10,373.83	10,372.46	183.29	211.32	89.91	8,725.51	-78.46	1,436.16	1,065.41	370.75	3.874	
19,800.00	10,470.00	10,373.53	10,372.16	185.15	211.31	89.90	8,725.51	-78.46	1,478.41	1,111.84	366.57	4.033	
19,900.00	10,470.00	10,373.26	10,371.89	187.01	211.31	89.89	8,725.51	-78.46	1,526.05	1,163.93	362.11	4.214	
20,000.00	10,470.00	10,372.99	10,371.63	188.87	211.30	89.88	8,725.51	-78.46	1,578.59	1,221.10	357.49	4.416	
20,100.00	10,470.00	10,372.75	10,371.38	190.74	211.29	89.86	8,725.51	-78.46	1,635.57	1,282.76	352.81	4.636	
20,200.00	10,470.00	10,372.51	10,371.14	192.60	211.29	89.85	8,725.51	-78.46	1,696.53	1,348.38	348.14	4.873	
20,300.00	10,470.00	10,372.29	10,370.92	194.46	211.28	89.84	8,725.51	-78.46	1,761.06	1,417.51	343.55	5.126	
20,400.00	10,470.00	10,372.08	10,370.71	196.33	211.28	89.84	8,725.51	-78.46	1,828.79	1,489.70	339.08	5.393	
20,500.00	10,470.00	10,371.88	10,370.51	198.20	211.27	89.83	8,725.51	-78.46	1,899.37	1,564.60	334.77	5.674	
20,600.00	10,470.00	10,371.69	10,370.32	200.07	211.27	89.82	8,725.51	-78.46	1,972.49	1,641.86	330.63	5.966	
20,686.73	10,470.00	10,371.53	10,370.16	201.58	211.26	89.81	8,725.52	-78.46	2,037.76	1,709.47	328.29	6.207	

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3695.50usft (Patterson 813)

Offset Depths are relative to Offset Datum

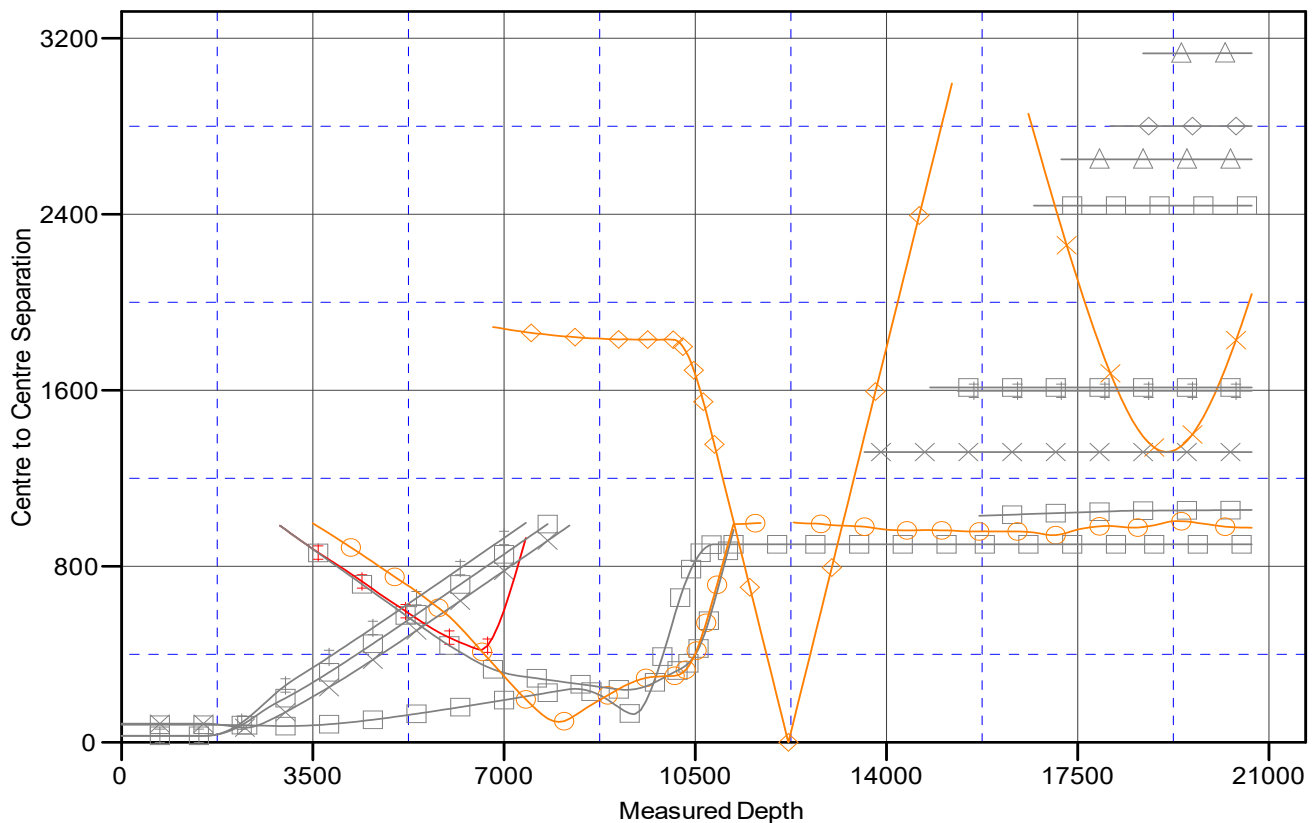
Central Meridian is -104.33333334

Coordinates are relative to: Gavilon Fed Com 706H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300

Grid Convergence at Surface is: 0.36°

Ladder Plot



LEGEND

	Gavilon Fed Com 604H, Wellbore #1, Plan 1 V0		Gavilon Fed Com 505H, Wellbore #1, Plan 1 V0		Gavilon Fed Com 305H, Wellbore #1, Plan 1 V0
	Gavilon Fed Com 306H, Wellbore #1, Plan 1 V0		Gavilon Fed Com 603H, Wellbore #1, Plan 1 V0		Gavilon Fed Com 403H, Wellbore #1, Plan 1 V0
	Gavilon Fed Com 704H, Wellbore #1, Actual V0		Gavilon Fed Com 708H, Wellbore #1, Plan 1 V0		Gavilon Fed Com 001, Wellbore #1, Actual V0
	Gavilon Fed Com 704H, Wellbore #1, Plan 4 V0		Gavilon Fed Com 602H, Wellbore #1, Actual V0		
	Tomahawk 28 Federal Com 001, Wellbore #1, Actual V0		Gavilon Fed Com 501H, Wellbore #1, Plan 1 V0		

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



Anticollision Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Reference Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Gavilon Fed Com 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3695.50usft (Patterson 813)

Offset Depths are relative to Offset Datum

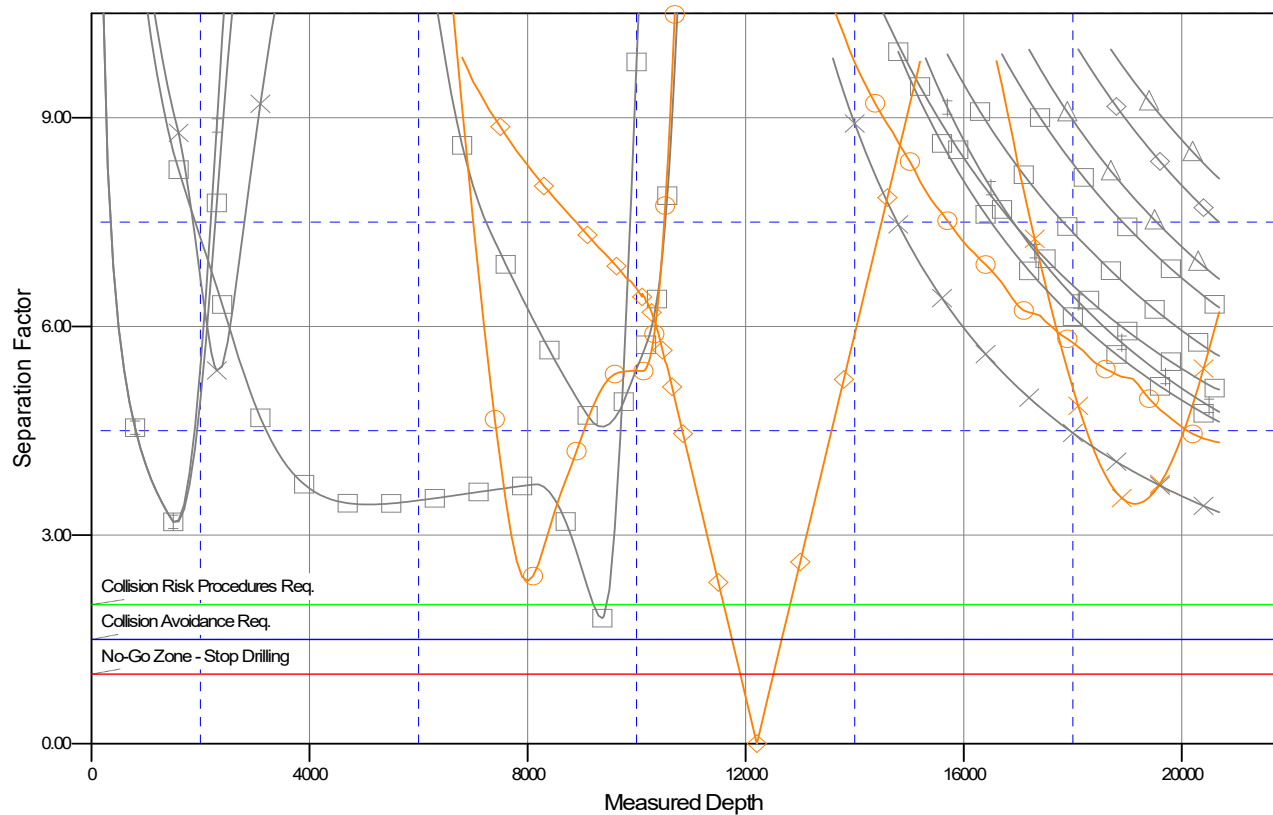
Central Meridian is -104.33333334

Coordinates are relative to: Gavilon Fed Com 706H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300

Grid Convergence at Surface is: 0.36°

Separation Factor Plot



LEGEND

Gavilon Fed Com 604H, Wellbore #1, Plan 1 V0	Gavilon Fed Com 505H, Wellbore #1, Plan 1 V0	Gavilon Fed Com 305H, Wellbore #1, Plan 1 V0
Gavilon Fed Com 306H, Wellbore #1, Plan 1 V0	Gavilon Fed Com 603H, Wellbore #1, Plan 1 V0	Gavilon Fed Com 403H, Wellbore #1, Plan 1 V0
Gavilon Fed Com 704H, Wellbore #1, Actual V0	Gavilon Fed Com 708H, Wellbore #1, Plan 1 V0	
Gavilon Fed Com 704H, Wellbore #1, Plan 4 V0	Gavilon Fed Com 602H, Wellbore #1, Actual V0	
Tomahawk 28 Federal Com 001, Wellbore #1, Actual V0	Gavilon Fed Com 501H, Wellbore #1, Plan 1 V0	

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



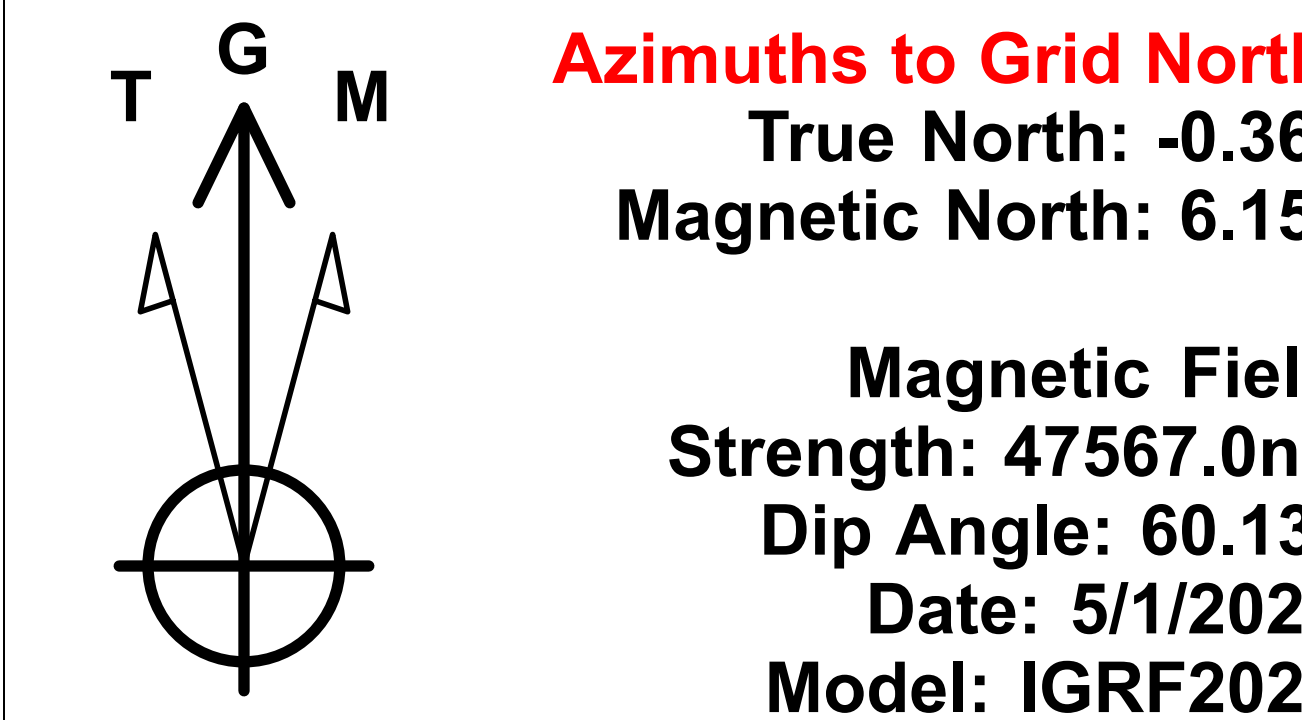
Gavilon Fed Com 706H Patterson 813

WELL DETAILS: Gavilon Fed Com 706H

+N/-S		+E/-W		ELEVATION: 3667.00		Northing		Easting		Latitude		Longitude	
0.00		0.00				554520.70		704505.50		32.52273674		-103.66984143	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	Begin Nudge
2500.04	10.00	268.14	2494.97	-2.83	-87.01	1.00	268.14	-2.26	EOB
9096.99	10.00	268.14	8991.68	-40.11	-1232.00	0.00	0.00	-31.94	EOH
9763.68	0.00	0.00	9655.00	-42.00	-1290.00	1.50	180.00	-33.44	Vertical
10098.68	0.00	0.00	9990.00	-42.00	-1290.00	0.00	0.00	-33.44	KOP
10562.40	55.64	350.93	10384.20	163.40	-1322.81	12.00	350.93	172.17	EOB
10856.73	90.00	359.62	10470.00	439.32	-1343.61	12.00	15.16	448.22	Land Point
20686.73	90.00	359.62	10470.00	10269.10	-1408.80	0.00	0.00	10278.22	BHL

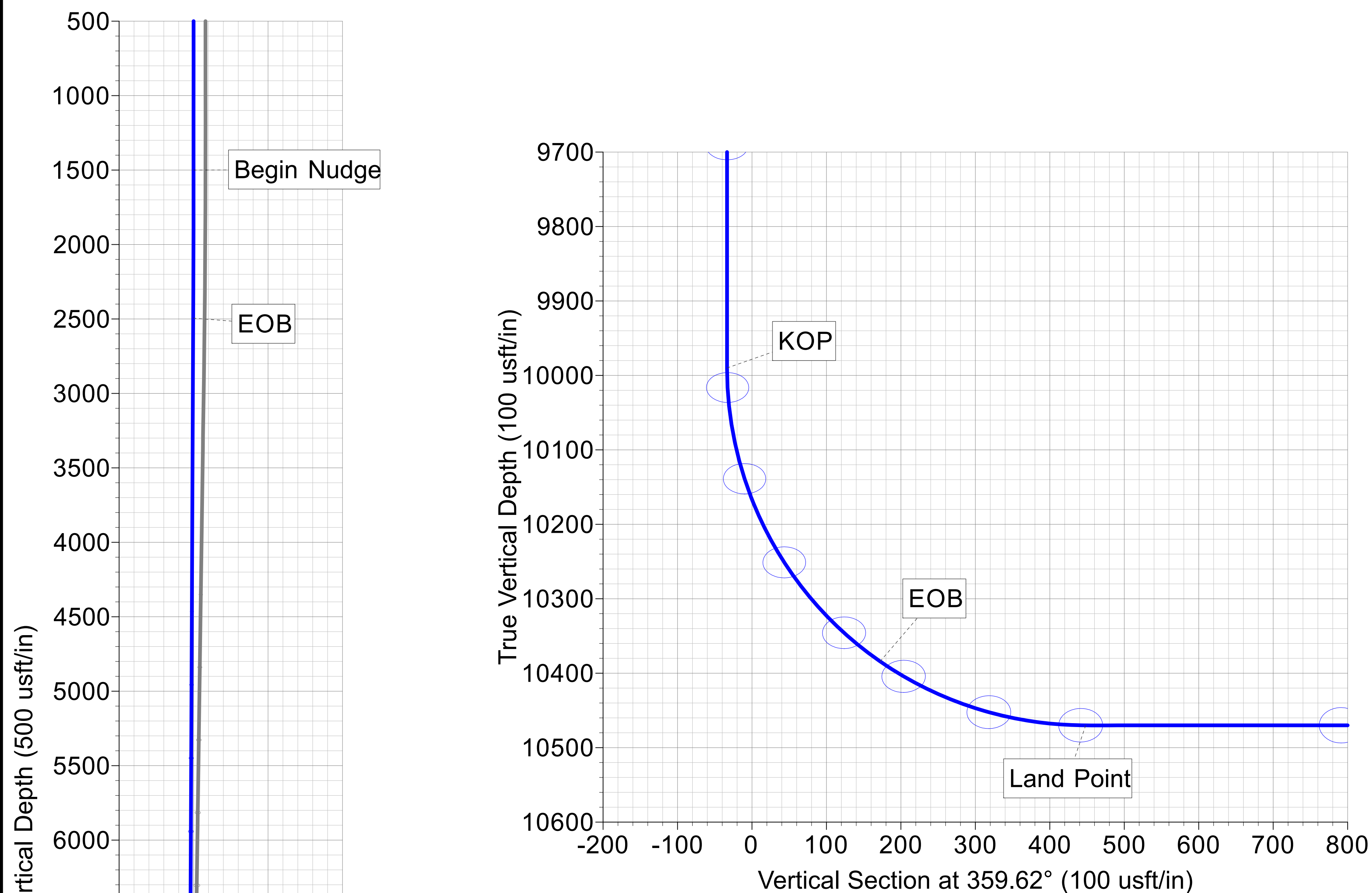


Azimuths to Grid North
True North: -0.36°
Magnetic North: 6.15°

Magnetic Field
Strength: 47567.0nT
Dip Angle: 60.13°
Date: 5/1/2022
Model: IGRF2020

Grid North is 0.36° East of True North (Grid Convergence)
Magnetic North is 6.51° East of True North (Magnetic Declination)
Magnetic North is 6.15° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 0.36°
To convert a Magnetic Direction to a True Direction, Add 6.51° East
To convert a Magnetic Direction to a Grid Direction, Add 6.15°



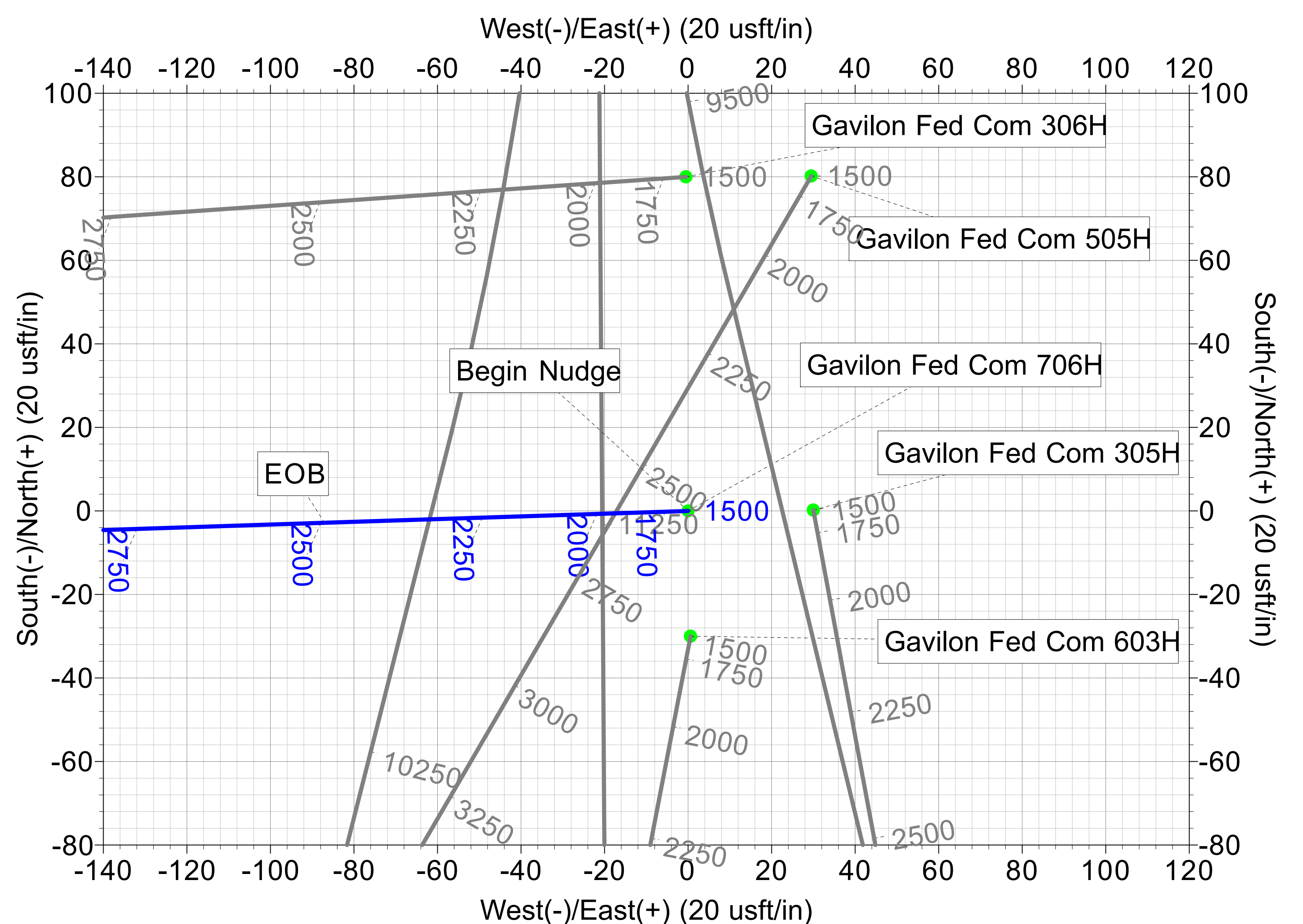
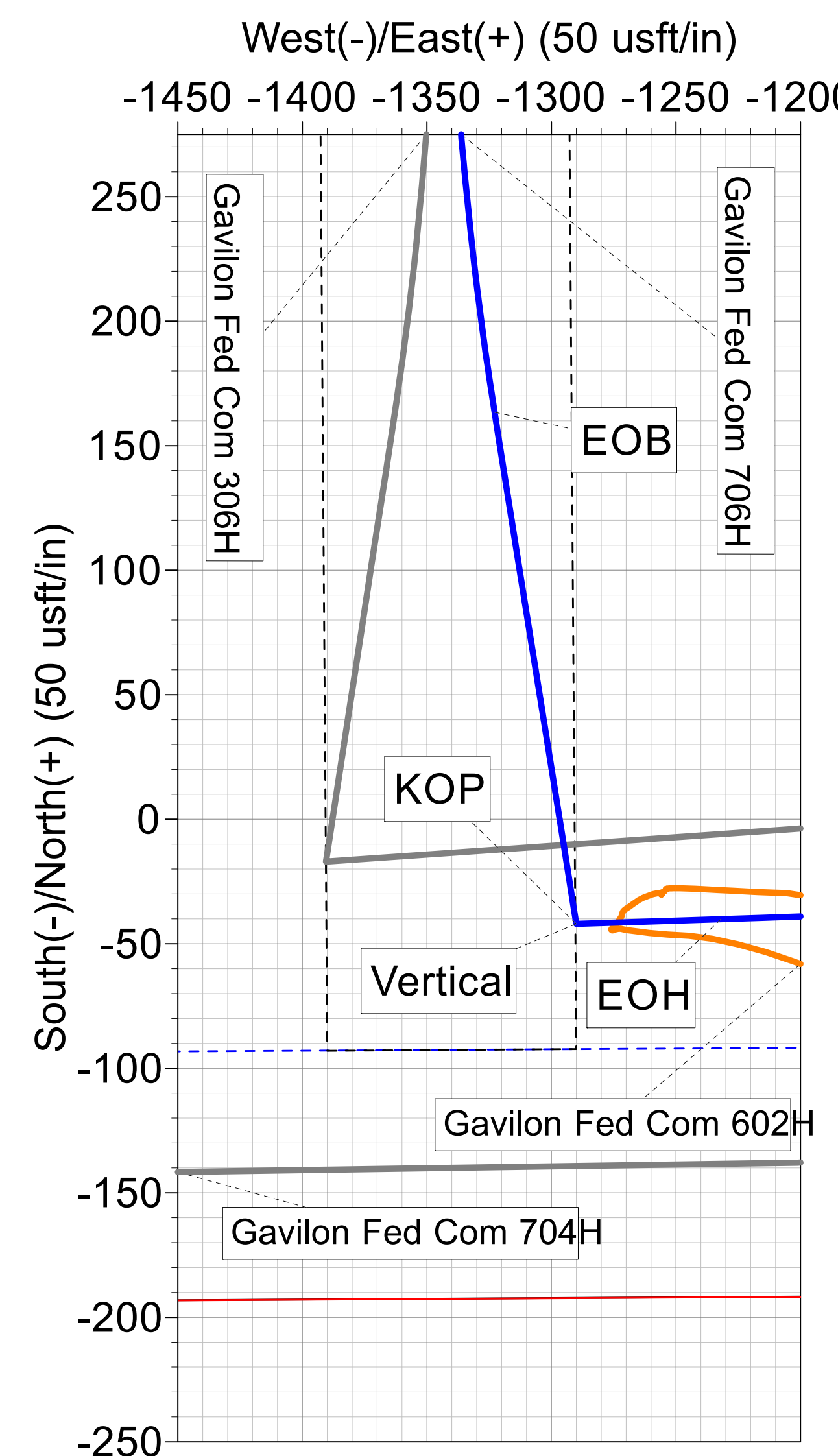
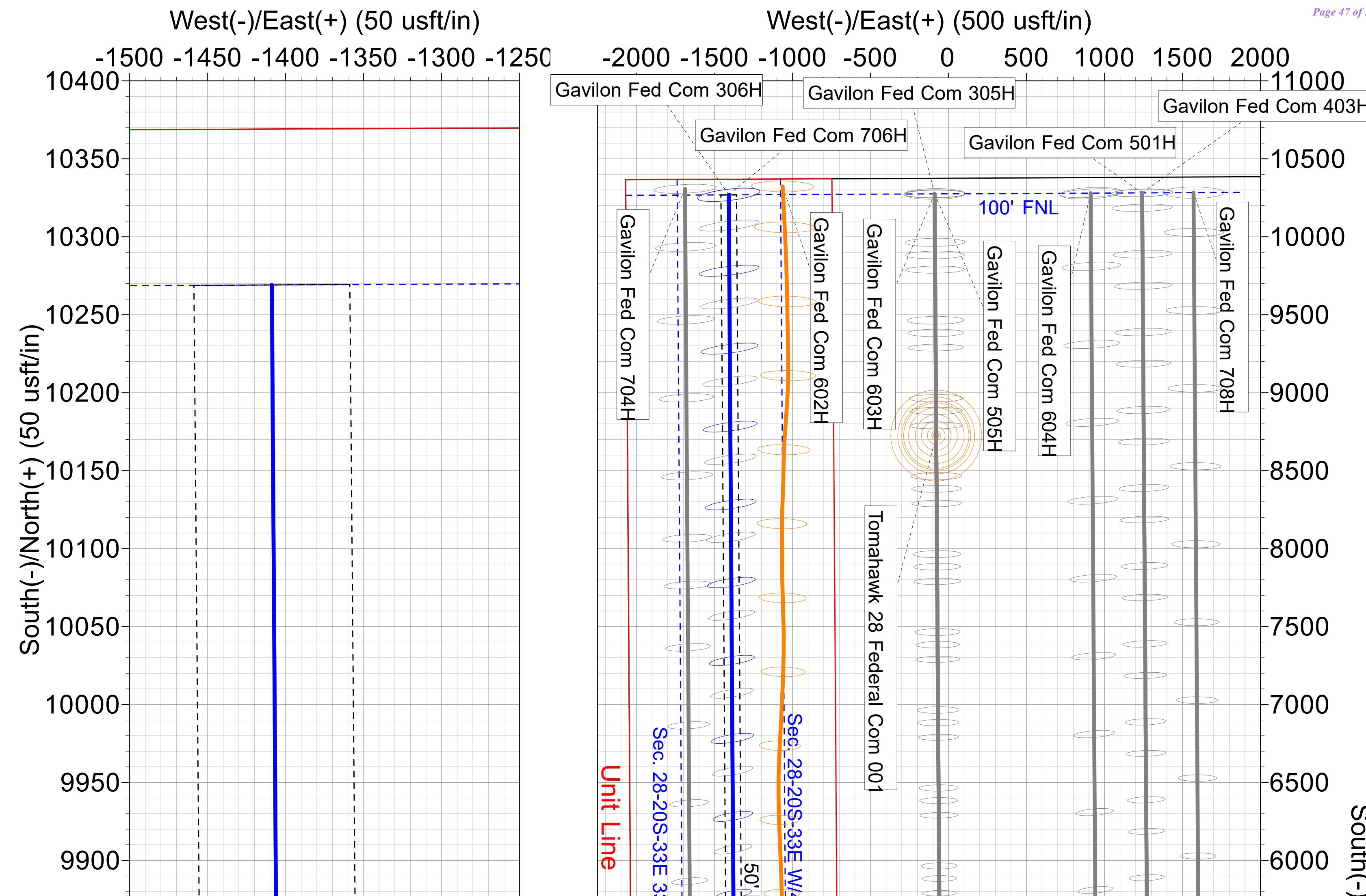
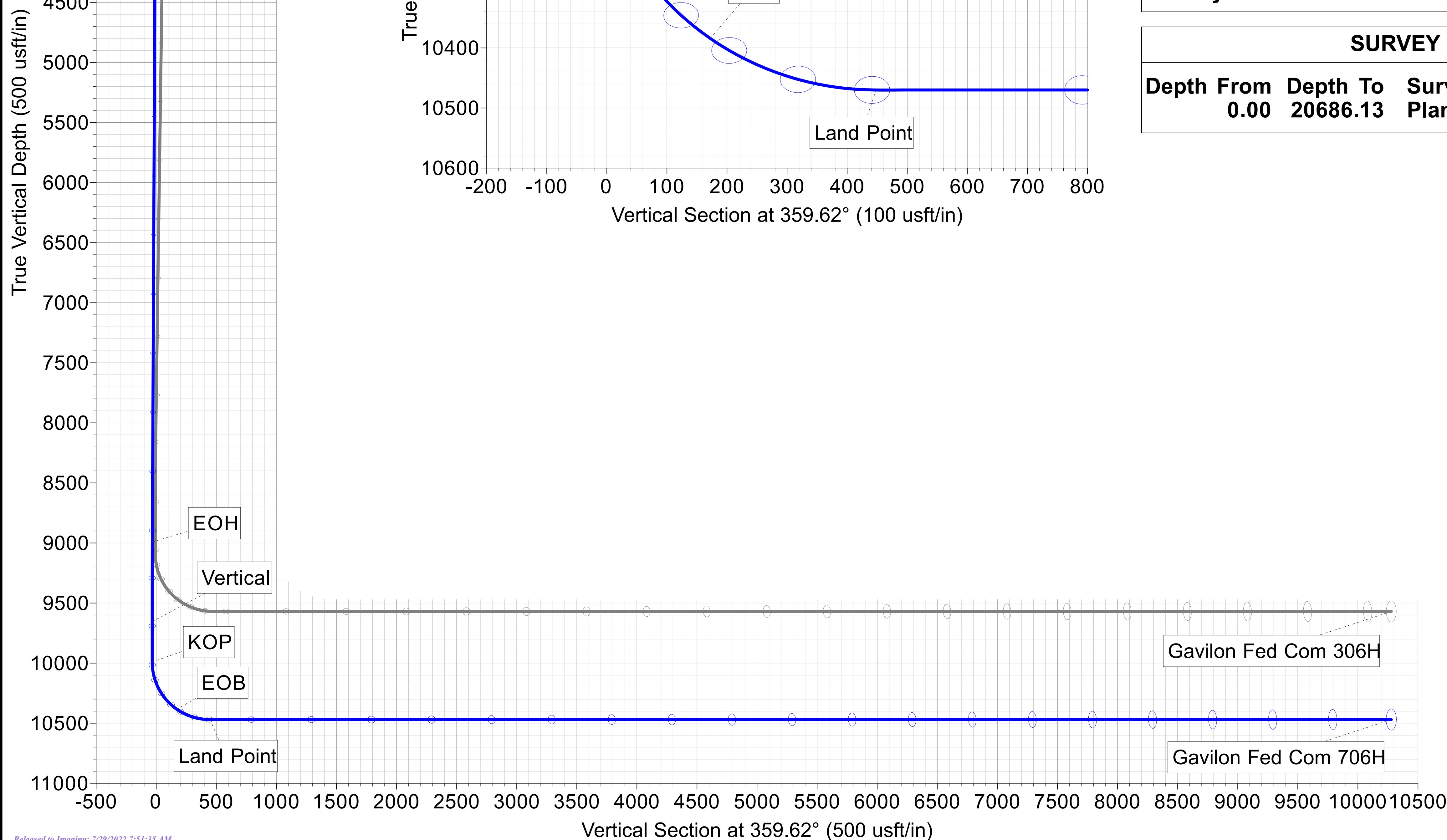
Project: Lea County, NM (NAD27)
Site: Gavilon Fed Com Pads (Grid)
Well: Gavilon Fed Com 706H
Wellbore: Wellbore #1
Design: Plan 1
Rig: Patterson 813
Depths: RKB @ 3695.50usft (Patterson 813)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

System Datum: Mean Sea Level

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	20686.13	Plan 1 (Wellbore #1)	MWD+IGRF





Matador Resources

Lea County, NM (NAD27)

Gavilon Fed Com Pads (Grid)

Gavilon Fed Com 706H

Wellbore #1

Plan: Plan 1

Standard Survey Report

28 March, 2022





Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 706H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

Project	Lea County, NM (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Gavilon Fed Com Pads (Grid)		
Site Position:		Northing:	554,459.00 usft
From:	Map	Easting:	703,322.30 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.52258733
		Longitude:	-103.67368119

Well	Gavilon Fed Com 706H		
Well Position	+N/-S	0.00 usft	Northing: 554,520.70 usft
	+E/-W	0.00 usft	Easting: 704,505.50 usft
Position Uncertainty	0.50 usft	Wellhead Elevation:	usft
Grid Convergence:	0.36 °	Ground Level:	3,667.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/1/2022	6.51	60.13	47,567.04507352

Design	Plan 1				
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	

Survey Tool Program	Date	3/25/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,686.13	Plan 1 (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 706H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge									
1,600.00	1.00	268.14	1,599.99	-0.03	-0.87	-0.02	1.00	1.00	0.00
1,700.00	2.00	268.14	1,699.96	-0.11	-3.49	-0.09	1.00	1.00	0.00
1,800.00	3.00	268.14	1,799.86	-0.26	-7.85	-0.20	1.00	1.00	0.00
1,900.00	4.00	268.14	1,899.68	-0.45	-13.95	-0.36	1.00	1.00	0.00
2,000.00	5.00	268.14	1,999.37	-0.71	-21.79	-0.56	1.00	1.00	0.00
2,100.00	6.00	268.14	2,098.90	-1.02	-31.37	-0.81	1.00	1.00	0.00
2,200.00	7.00	268.14	2,198.26	-1.39	-42.68	-1.11	1.00	1.00	0.00
2,300.00	8.00	268.14	2,297.40	-1.81	-55.73	-1.44	1.00	1.00	0.00
2,400.00	9.00	268.14	2,396.30	-2.30	-70.50	-1.83	1.00	1.00	0.00
2,500.00	10.00	268.14	2,494.93	-2.83	-87.00	-2.26	1.00	1.00	0.00
2,500.04	10.00	268.14	2,494.97	-2.83	-87.01	-2.26	1.00	1.00	0.00
EOB									
2,600.00	10.00	268.14	2,593.41	-3.40	-104.36	-2.71	0.00	0.00	0.00
2,700.00	10.00	268.14	2,691.89	-3.96	-121.71	-3.16	0.00	0.00	0.00
2,800.00	10.00	268.14	2,790.37	-4.53	-139.07	-3.61	0.00	0.00	0.00
2,900.00	10.00	268.14	2,888.85	-5.09	-156.42	-4.06	0.00	0.00	0.00
3,000.00	10.00	268.14	2,987.33	-5.66	-173.78	-4.51	0.00	0.00	0.00
3,100.00	10.00	268.14	3,085.81	-6.22	-191.14	-4.96	0.00	0.00	0.00
3,200.00	10.00	268.14	3,184.30	-6.79	-208.49	-5.41	0.00	0.00	0.00
3,300.00	10.00	268.14	3,282.78	-7.35	-225.85	-5.86	0.00	0.00	0.00
3,400.00	10.00	268.14	3,381.26	-7.92	-243.21	-6.31	0.00	0.00	0.00
3,500.00	10.00	268.14	3,479.74	-8.48	-260.56	-6.76	0.00	0.00	0.00
3,600.00	10.00	268.14	3,578.22	-9.05	-277.92	-7.21	0.00	0.00	0.00
3,700.00	10.00	268.14	3,676.70	-9.61	-295.28	-7.66	0.00	0.00	0.00
3,800.00	10.00	268.14	3,775.18	-10.18	-312.63	-8.11	0.00	0.00	0.00
3,900.00	10.00	268.14	3,873.66	-10.74	-329.99	-8.56	0.00	0.00	0.00
4,000.00	10.00	268.14	3,972.14	-11.31	-347.34	-9.00	0.00	0.00	0.00
4,100.00	10.00	268.14	4,070.62	-11.87	-364.70	-9.45	0.00	0.00	0.00
4,200.00	10.00	268.14	4,169.10	-12.44	-382.06	-9.90	0.00	0.00	0.00
4,300.00	10.00	268.14	4,267.58	-13.00	-399.41	-10.35	0.00	0.00	0.00
4,400.00	10.00	268.14	4,366.06	-13.57	-416.77	-10.80	0.00	0.00	0.00
4,500.00	10.00	268.14	4,464.54	-14.13	-434.13	-11.25	0.00	0.00	0.00
4,600.00	10.00	268.14	4,563.02	-14.70	-451.48	-11.70	0.00	0.00	0.00
4,700.00	10.00	268.14	4,661.51	-15.26	-468.84	-12.15	0.00	0.00	0.00
4,800.00	10.00	268.14	4,759.99	-15.83	-486.20	-12.60	0.00	0.00	0.00
4,900.00	10.00	268.14	4,858.47	-16.39	-503.55	-13.05	0.00	0.00	0.00



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 706H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.00	10.00	268.14	4,956.95	-16.96	-520.91	-13.50	0.00	0.00	0.00	
5,100.00	10.00	268.14	5,055.43	-17.52	-538.26	-13.95	0.00	0.00	0.00	
5,200.00	10.00	268.14	5,153.91	-18.09	-555.62	-14.40	0.00	0.00	0.00	
5,300.00	10.00	268.14	5,252.39	-18.66	-572.98	-14.85	0.00	0.00	0.00	
5,400.00	10.00	268.14	5,350.87	-19.22	-590.33	-15.30	0.00	0.00	0.00	
5,500.00	10.00	268.14	5,449.35	-19.79	-607.69	-15.75	0.00	0.00	0.00	
5,600.00	10.00	268.14	5,547.83	-20.35	-625.05	-16.20	0.00	0.00	0.00	
5,700.00	10.00	268.14	5,646.31	-20.92	-642.40	-16.65	0.00	0.00	0.00	
5,800.00	10.00	268.14	5,744.79	-21.48	-659.76	-17.10	0.00	0.00	0.00	
5,900.00	10.00	268.14	5,843.27	-22.05	-677.12	-17.55	0.00	0.00	0.00	
6,000.00	10.00	268.14	5,941.75	-22.61	-694.47	-18.00	0.00	0.00	0.00	
6,100.00	10.00	268.14	6,040.23	-23.18	-711.83	-18.45	0.00	0.00	0.00	
6,200.00	10.00	268.14	6,138.71	-23.74	-729.18	-18.90	0.00	0.00	0.00	
6,300.00	10.00	268.14	6,237.20	-24.31	-746.54	-19.35	0.00	0.00	0.00	
6,400.00	10.00	268.14	6,335.68	-24.87	-763.90	-19.80	0.00	0.00	0.00	
6,500.00	10.00	268.14	6,434.16	-25.44	-781.25	-20.25	0.00	0.00	0.00	
6,600.00	10.00	268.14	6,532.64	-26.00	-798.61	-20.70	0.00	0.00	0.00	
6,700.00	10.00	268.14	6,631.12	-26.57	-815.97	-21.15	0.00	0.00	0.00	
6,800.00	10.00	268.14	6,729.60	-27.13	-833.32	-21.60	0.00	0.00	0.00	
6,900.00	10.00	268.14	6,828.08	-27.70	-850.68	-22.05	0.00	0.00	0.00	
7,000.00	10.00	268.14	6,926.56	-28.26	-868.04	-22.50	0.00	0.00	0.00	
7,100.00	10.00	268.14	7,025.04	-28.83	-885.39	-22.95	0.00	0.00	0.00	
7,200.00	10.00	268.14	7,123.52	-29.39	-902.75	-23.40	0.00	0.00	0.00	
7,300.00	10.00	268.14	7,222.00	-29.96	-920.10	-23.85	0.00	0.00	0.00	
7,400.00	10.00	268.14	7,320.48	-30.52	-937.46	-24.30	0.00	0.00	0.00	
7,500.00	10.00	268.14	7,418.96	-31.09	-954.82	-24.75	0.00	0.00	0.00	
7,600.00	10.00	268.14	7,517.44	-31.65	-972.17	-25.20	0.00	0.00	0.00	
7,700.00	10.00	268.14	7,615.92	-32.22	-989.53	-25.65	0.00	0.00	0.00	
7,800.00	10.00	268.14	7,714.41	-32.78	-1,006.89	-26.10	0.00	0.00	0.00	
7,900.00	10.00	268.14	7,812.89	-33.35	-1,024.24	-26.55	0.00	0.00	0.00	
8,000.00	10.00	268.14	7,911.37	-33.91	-1,041.60	-27.00	0.00	0.00	0.00	
8,100.00	10.00	268.14	8,009.85	-34.48	-1,058.96	-27.45	0.00	0.00	0.00	
8,200.00	10.00	268.14	8,108.33	-35.04	-1,076.31	-27.90	0.00	0.00	0.00	
8,300.00	10.00	268.14	8,206.81	-35.61	-1,093.67	-28.35	0.00	0.00	0.00	
8,400.00	10.00	268.14	8,305.29	-36.17	-1,111.02	-28.80	0.00	0.00	0.00	
8,500.00	10.00	268.14	8,403.77	-36.74	-1,128.38	-29.25	0.00	0.00	0.00	
8,600.00	10.00	268.14	8,502.25	-37.30	-1,145.74	-29.70	0.00	0.00	0.00	
8,700.00	10.00	268.14	8,600.73	-37.87	-1,163.09	-30.15	0.00	0.00	0.00	
8,800.00	10.00	268.14	8,699.21	-38.43	-1,180.45	-30.60	0.00	0.00	0.00	
8,900.00	10.00	268.14	8,797.69	-39.00	-1,197.81	-31.05	0.00	0.00	0.00	
9,000.00	10.00	268.14	8,896.17	-39.56	-1,215.16	-31.50	0.00	0.00	0.00	
9,096.99	10.00	268.14	8,991.68	-40.11	-1,232.00	-31.94	0.00	0.00	0.00	
EOH										
9,100.00	9.96	268.14	8,994.65	-40.13	-1,232.52	-31.95	1.50	-1.50	0.00	



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 706H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,200.00	8.46	268.14	9,093.36	-40.65	-1,248.51	-32.37	1.50	-1.50	0.00	
9,300.00	6.96	268.14	9,192.46	-41.09	-1,261.91	-32.72	1.50	-1.50	0.00	
9,400.00	5.46	268.14	9,291.87	-41.44	-1,272.71	-33.00	1.50	-1.50	0.00	
9,500.00	3.96	268.14	9,391.53	-41.70	-1,280.91	-33.21	1.50	-1.50	0.00	
9,600.00	2.46	268.14	9,491.37	-41.89	-1,286.50	-33.35	1.50	-1.50	0.00	
9,700.00	0.96	268.14	9,591.32	-41.98	-1,289.47	-33.43	1.50	-1.50	0.00	
9,763.68	0.00	0.00	9,655.00	-42.00	-1,290.00	-33.44	1.50	-1.50	0.00	
Vertical										
9,800.00	0.00	0.00	9,691.32	-42.00	-1,290.00	-33.44	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,791.32	-42.00	-1,290.00	-33.44	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,891.32	-42.00	-1,290.00	-33.44	0.00	0.00	0.00	
10,098.68	0.00	0.00	9,990.00	-42.00	-1,290.00	-33.44	0.00	0.00	0.00	
KOP										
10,100.00	0.16	350.93	9,991.32	-42.00	-1,290.00	-33.44	12.00	12.00	0.00	
10,200.00	12.16	350.93	10,090.56	-31.43	-1,291.69	-22.86	12.00	12.00	0.00	
10,300.00	24.15	350.93	10,185.41	-0.71	-1,296.59	7.89	12.00	12.00	0.00	
10,400.00	36.15	350.93	10,271.72	48.80	-1,304.50	57.45	12.00	12.00	0.00	
10,500.00	48.15	350.93	10,345.72	114.95	-1,315.07	123.67	12.00	12.00	0.00	
10,562.40	55.64	350.93	10,384.20	163.40	-1,322.81	172.17	12.00	12.00	0.00	
EOB										
10,600.00	60.00	352.29	10,404.22	194.87	-1,327.44	203.67	12.00	11.60	3.62	
10,700.00	71.65	355.42	10,445.11	285.42	-1,337.08	294.28	12.00	11.66	3.13	
10,800.00	83.35	358.14	10,466.71	382.72	-1,342.50	391.62	12.00	11.70	2.73	
10,856.73	90.00	359.62	10,470.00	439.32	-1,343.61	448.22	12.00	11.71	2.60	
Land Point										
10,900.00	90.00	359.62	10,470.00	482.58	-1,343.89	491.49	0.00	0.00	0.00	
11,000.00	90.00	359.62	10,470.00	582.58	-1,344.56	591.49	0.00	0.00	0.00	
11,100.00	90.00	359.62	10,470.00	682.58	-1,345.22	691.49	0.00	0.00	0.00	
11,200.00	90.00	359.62	10,470.00	782.58	-1,345.88	791.49	0.00	0.00	0.00	
11,300.00	90.00	359.62	10,470.00	882.57	-1,346.55	891.49	0.00	0.00	0.00	
11,400.00	90.00	359.62	10,470.00	982.57	-1,347.21	991.49	0.00	0.00	0.00	
11,500.00	90.00	359.62	10,470.00	1,082.57	-1,347.87	1,091.49	0.00	0.00	0.00	
11,600.00	90.00	359.62	10,470.00	1,182.57	-1,348.53	1,191.49	0.00	0.00	0.00	
11,700.00	90.00	359.62	10,470.00	1,282.57	-1,349.20	1,291.49	0.00	0.00	0.00	
11,800.00	90.00	359.62	10,470.00	1,382.56	-1,349.86	1,391.49	0.00	0.00	0.00	
11,900.00	90.00	359.62	10,470.00	1,482.56	-1,350.52	1,491.49	0.00	0.00	0.00	
12,000.00	90.00	359.62	10,470.00	1,582.56	-1,351.19	1,591.49	0.00	0.00	0.00	
12,100.00	90.00	359.62	10,470.00	1,682.56	-1,351.85	1,691.49	0.00	0.00	0.00	
12,200.00	90.00	359.62	10,470.00	1,782.55	-1,352.51	1,791.49	0.00	0.00	0.00	
12,300.00	90.00	359.62	10,470.00	1,882.55	-1,353.18	1,891.49	0.00	0.00	0.00	
12,400.00	90.00	359.62	10,470.00	1,982.55	-1,353.84	1,991.49	0.00	0.00	0.00	
12,500.00	90.00	359.62	10,470.00	2,082.55	-1,354.50	2,091.49	0.00	0.00	0.00	
12,600.00	90.00	359.62	10,470.00	2,182.55	-1,355.17	2,191.49	0.00	0.00	0.00	
12,700.00	90.00	359.62	10,470.00	2,282.54	-1,355.83	2,291.49	0.00	0.00	0.00	



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 706H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,800.00	90.00	359.62	10,470.00	2,382.54	-1,356.49	2,391.49	0.00	0.00	0.00	
12,900.00	90.00	359.62	10,470.00	2,482.54	-1,357.16	2,491.49	0.00	0.00	0.00	
13,000.00	90.00	359.62	10,470.00	2,582.54	-1,357.82	2,591.49	0.00	0.00	0.00	
13,100.00	90.00	359.62	10,470.00	2,682.53	-1,358.48	2,691.49	0.00	0.00	0.00	
13,200.00	90.00	359.62	10,470.00	2,782.53	-1,359.15	2,791.49	0.00	0.00	0.00	
13,300.00	90.00	359.62	10,470.00	2,882.53	-1,359.81	2,891.49	0.00	0.00	0.00	
13,400.00	90.00	359.62	10,470.00	2,982.53	-1,360.47	2,991.49	0.00	0.00	0.00	
13,500.00	90.00	359.62	10,470.00	3,082.53	-1,361.14	3,091.49	0.00	0.00	0.00	
13,600.00	90.00	359.62	10,470.00	3,182.52	-1,361.80	3,191.49	0.00	0.00	0.00	
13,700.00	90.00	359.62	10,470.00	3,282.52	-1,362.46	3,291.49	0.00	0.00	0.00	
13,800.00	90.00	359.62	10,470.00	3,382.52	-1,363.13	3,391.49	0.00	0.00	0.00	
13,900.00	90.00	359.62	10,470.00	3,482.52	-1,363.79	3,491.49	0.00	0.00	0.00	
14,000.00	90.00	359.62	10,470.00	3,582.51	-1,364.45	3,591.49	0.00	0.00	0.00	
14,100.00	90.00	359.62	10,470.00	3,682.51	-1,365.12	3,691.49	0.00	0.00	0.00	
14,200.00	90.00	359.62	10,470.00	3,782.51	-1,365.78	3,791.49	0.00	0.00	0.00	
14,300.00	90.00	359.62	10,470.00	3,882.51	-1,366.44	3,891.49	0.00	0.00	0.00	
14,400.00	90.00	359.62	10,470.00	3,982.51	-1,367.11	3,991.49	0.00	0.00	0.00	
14,500.00	90.00	359.62	10,470.00	4,082.50	-1,367.77	4,091.49	0.00	0.00	0.00	
14,600.00	90.00	359.62	10,470.00	4,182.50	-1,368.43	4,191.49	0.00	0.00	0.00	
14,700.00	90.00	359.62	10,470.00	4,282.50	-1,369.09	4,291.49	0.00	0.00	0.00	
14,800.00	90.00	359.62	10,470.00	4,382.50	-1,369.76	4,391.49	0.00	0.00	0.00	
14,900.00	90.00	359.62	10,470.00	4,482.49	-1,370.42	4,491.49	0.00	0.00	0.00	
15,000.00	90.00	359.62	10,470.00	4,582.49	-1,371.08	4,591.49	0.00	0.00	0.00	
15,100.00	90.00	359.62	10,470.00	4,682.49	-1,371.75	4,691.49	0.00	0.00	0.00	
15,200.00	90.00	359.62	10,470.00	4,782.49	-1,372.41	4,791.49	0.00	0.00	0.00	
15,300.00	90.00	359.62	10,470.00	4,882.49	-1,373.07	4,891.49	0.00	0.00	0.00	
15,400.00	90.00	359.62	10,470.00	4,982.48	-1,373.74	4,991.49	0.00	0.00	0.00	
15,500.00	90.00	359.62	10,470.00	5,082.48	-1,374.40	5,091.49	0.00	0.00	0.00	
15,600.00	90.00	359.62	10,470.00	5,182.48	-1,375.06	5,191.49	0.00	0.00	0.00	
15,700.00	90.00	359.62	10,470.00	5,282.48	-1,375.73	5,291.49	0.00	0.00	0.00	
15,800.00	90.00	359.62	10,470.00	5,382.48	-1,376.39	5,391.49	0.00	0.00	0.00	
15,900.00	90.00	359.62	10,470.00	5,482.47	-1,377.05	5,491.49	0.00	0.00	0.00	
16,000.00	90.00	359.62	10,470.00	5,582.47	-1,377.72	5,591.49	0.00	0.00	0.00	
16,100.00	90.00	359.62	10,470.00	5,682.47	-1,378.38	5,691.49	0.00	0.00	0.00	
16,200.00	90.00	359.62	10,470.00	5,782.47	-1,379.04	5,791.49	0.00	0.00	0.00	
16,300.00	90.00	359.62	10,470.00	5,882.46	-1,379.71	5,891.49	0.00	0.00	0.00	
16,400.00	90.00	359.62	10,470.00	5,982.46	-1,380.37	5,991.49	0.00	0.00	0.00	
16,500.00	90.00	359.62	10,470.00	6,082.46	-1,381.03	6,091.49	0.00	0.00	0.00	
16,600.00	90.00	359.62	10,470.00	6,182.46	-1,381.70	6,191.49	0.00	0.00	0.00	
16,700.00	90.00	359.62	10,470.00	6,282.46	-1,382.36	6,291.49	0.00	0.00	0.00	
16,800.00	90.00	359.62	10,470.00	6,382.45	-1,383.02	6,391.49	0.00	0.00	0.00	
16,900.00	90.00	359.62	10,470.00	6,482.45	-1,383.69	6,491.49	0.00	0.00	0.00	
17,000.00	90.00	359.62	10,470.00	6,582.45	-1,384.35	6,591.49	0.00	0.00	0.00	



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 706H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,100.00	90.00	359.62	10,470.00	6,682.45	-1,385.01	6,691.49	0.00	0.00	0.00
17,200.00	90.00	359.62	10,470.00	6,782.44	-1,385.68	6,791.49	0.00	0.00	0.00
17,300.00	90.00	359.62	10,470.00	6,882.44	-1,386.34	6,891.49	0.00	0.00	0.00
17,400.00	90.00	359.62	10,470.00	6,982.44	-1,387.00	6,991.49	0.00	0.00	0.00
17,500.00	90.00	359.62	10,470.00	7,082.44	-1,387.66	7,091.49	0.00	0.00	0.00
17,600.00	90.00	359.62	10,470.00	7,182.44	-1,388.33	7,191.49	0.00	0.00	0.00
17,700.00	90.00	359.62	10,470.00	7,282.43	-1,388.99	7,291.49	0.00	0.00	0.00
17,800.00	90.00	359.62	10,470.00	7,382.43	-1,389.65	7,391.49	0.00	0.00	0.00
17,900.00	90.00	359.62	10,470.00	7,482.43	-1,390.32	7,491.49	0.00	0.00	0.00
18,000.00	90.00	359.62	10,470.00	7,582.43	-1,390.98	7,591.49	0.00	0.00	0.00
18,100.00	90.00	359.62	10,470.00	7,682.42	-1,391.64	7,691.49	0.00	0.00	0.00
18,200.00	90.00	359.62	10,470.00	7,782.42	-1,392.31	7,791.49	0.00	0.00	0.00
18,300.00	90.00	359.62	10,470.00	7,882.42	-1,392.97	7,891.49	0.00	0.00	0.00
18,400.00	90.00	359.62	10,470.00	7,982.42	-1,393.63	7,991.49	0.00	0.00	0.00
18,500.00	90.00	359.62	10,470.00	8,082.42	-1,394.30	8,091.49	0.00	0.00	0.00
18,600.00	90.00	359.62	10,470.00	8,182.41	-1,394.96	8,191.49	0.00	0.00	0.00
18,700.00	90.00	359.62	10,470.00	8,282.41	-1,395.62	8,291.49	0.00	0.00	0.00
18,800.00	90.00	359.62	10,470.00	8,382.41	-1,396.29	8,391.49	0.00	0.00	0.00
18,900.00	90.00	359.62	10,470.00	8,482.41	-1,396.95	8,491.49	0.00	0.00	0.00
19,000.00	90.00	359.62	10,470.00	8,582.40	-1,397.61	8,591.49	0.00	0.00	0.00
19,100.00	90.00	359.62	10,470.00	8,682.40	-1,398.28	8,691.49	0.00	0.00	0.00
19,200.00	90.00	359.62	10,470.00	8,782.40	-1,398.94	8,791.49	0.00	0.00	0.00
19,300.00	90.00	359.62	10,470.00	8,882.40	-1,399.60	8,891.49	0.00	0.00	0.00
19,400.00	90.00	359.62	10,470.00	8,982.40	-1,400.27	8,991.49	0.00	0.00	0.00
19,500.00	90.00	359.62	10,470.00	9,082.39	-1,400.93	9,091.49	0.00	0.00	0.00
19,600.00	90.00	359.62	10,470.00	9,182.39	-1,401.59	9,191.49	0.00	0.00	0.00
19,700.00	90.00	359.62	10,470.00	9,282.39	-1,402.26	9,291.49	0.00	0.00	0.00
19,800.00	90.00	359.62	10,470.00	9,382.39	-1,402.92	9,391.49	0.00	0.00	0.00
19,900.00	90.00	359.62	10,470.00	9,482.38	-1,403.58	9,491.49	0.00	0.00	0.00
20,000.00	90.00	359.62	10,470.00	9,582.38	-1,404.25	9,591.49	0.00	0.00	0.00
20,100.00	90.00	359.62	10,470.00	9,682.38	-1,404.91	9,691.49	0.00	0.00	0.00
20,200.00	90.00	359.62	10,470.00	9,782.38	-1,405.57	9,791.49	0.00	0.00	0.00
20,300.00	90.00	359.62	10,470.00	9,882.38	-1,406.24	9,891.49	0.00	0.00	0.00
20,400.00	90.00	359.62	10,470.00	9,982.37	-1,406.90	9,991.49	0.00	0.00	0.00
20,500.00	90.00	359.62	10,470.00	10,082.37	-1,407.56	10,091.49	0.00	0.00	0.00
20,600.00	90.00	359.62	10,470.00	10,182.37	-1,408.22	10,191.49	0.00	0.00	0.00
20,686.73	90.00	359.62	10,470.00	10,269.10	-1,408.80	10,278.22	0.00	0.00	0.00
BHL									



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Gavilon Fed Com 706H
Project:	Lea County, NM (NAD27)	TVD Reference:	RKB @ 3695.50usft (Patterson 813)
Site:	Gavilon Fed Com Pads (Grid)	MD Reference:	RKB @ 3695.50usft (Patterson 813)
Well:	Gavilon Fed Com 706H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	1 - EDM Production

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Gavilon Fed Com 706H - plan misses target center by 10365.28usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	10,269.10	-1,408.80	564,789.80	703,096.70	32.55098718	-103.67420570
Gavilon Fed Com 706H - plan misses target center by 1343.20usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-92.60	-1,340.00	554,428.10	703,165.50	32.52250506	-103.67419049
Gavilon Fed Com 706H - plan misses target center by 1347.23usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-142.56	-1,339.67	554,378.14	703,165.83	32.52236774	-103.67419042

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1500	1500	0	0	Begin Nudge	
2500	2495	-3	-87	EOB	
9097	8992	-40	-1232	EOH	
9764	9655	-42	-1290	Vertical	
10,099	9990	-42	-1290	KOP	
10,562	10,384	163	-1323	EOB	
10,857	10,470	439	-1344	Land Point	
20,687	10,470	10,269	-1409	BHL	

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

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

CONDITIONS

Action 120543

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 120543
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	PREVIOUS COA's APPLY	7/29/2022